STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Oscar G. Adolph
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 household use.

3. Date or approximate date of earliest beneficial use: 1960; used continuously since then.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: completed fall of 1960.

8. The depth of water table: 90 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: Drilled well; 6 in. casing, 90 ft. deep.

10. The estimated amount of groundwater withdrawn each year: 42,000 gals.

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

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

Signature of Owner: Oscar G. Adolph
Date: Dec. 23, 1963

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

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

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

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

1. Oscar G. Adolph, or Flat Willow Route, Roundup
   (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 is
      Stock water

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been
      Date of earliest use
      Unknown - used in winter and spring since I acquired the place

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

   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
      Dug well, rocked sides, 22 feet deep

   10. The estimated amount of groundwater withdrawn each year
      41,000 gals.

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

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

   Signature of Owner: Oscar G. Adolph
   Date: Dec. 23, 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. **Oscar G. Adolph**, Flatwillow Route, Roundup
   
   (Name of Appropriaee) (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: **1950 used off and on year round**

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **completed in fall of 1950**

   8. The depth of water table: **95 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: **Drilled well, 4 in. casing, 95 feet deep**

   10. The estimated amount of groundwater withdrawn each year: **55,000 gals.**

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

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

   **Signature of Owner** **Oscar G. Adolph**

   **Date** **Dec. 23, 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

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater.

Owner: Oscar E. Adolph. Address: Roundup, Mont.

Contractor (if any): none

Address of Contractor

Date Started — Date Completed

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

Depth: 5 ft. when full.

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.

Estimate: 500 gallons per day (on the average) Figuring 10 gals. per head for 50 cattle.

Signature of Owner: Oscar E. Adolph

Date: Dec. 23, 1963

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
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: 1909

Owner: Louis Sprague
Address: Boundry Montana

Contractor (If any):
Address of Contractor:

Date Started:
Date Completed:

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

Spring & sub-irrigation
Depth— 1 foot to 50 feet:

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.

Continuous

Approx. 5/4 mile long; 6 from 50 to 500 feet wide
of underground water. Located in sec. 9-9-S-15W
as South Willow Creek. In the south half of the sec.

Signature of Owner:
Date: December 17, 1963

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
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. **Lewis Sprague**
   of **Flat Willow Rd.**
   **Swarey**
   (Name of Appropriator)
   (Address)
   (Town)

   County of **Musselell**
   State of **Montana**

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

2. The beneficial use on which the claim is based:
   Stock Water, & any such use necessary.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. At least 45 years
   Use every day 365 days a year.

4. The amount of groundwater claimed (in miner's inches or gallons per minute). I claim all the groundwater that
   these wells produce, every 24 hr. per day.

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
   Have irrigated approximately 1/3 acre.
   41/2. 9-3-23

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
   Unknown about 40 years.

8. The depth of water table.
   From 300 feet to 200 feet.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.
   **Wells**
   **1st Well 110 feet deep & 6 inch hole, pump**
   **2nd Well 20 feet deep 4 in. feet ing pump**

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

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. **Not known**.

   Signature of Owner: **Lewis Sprague**
   Date: December 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.
Notice of Completion of Groundwater Appropriation
Without Well
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: ____________________________

Owner: Oscar G. Adolph
Address: Roundup, Mont.

Contractor (if any): ____________________________

Address of Contractor: ____________________________

Date Started: ____________________________ Date Completed: ____________________________

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

Natural spring
Depth = 3 feet

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.

Estimate 330 gallons per day
(on the average) figuring
10 gal. per head for 33 cows.

Signature of Owner: Oscar G. Adolph
Date: Dec. 23, 1963

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**
**ADMINISTRATOR OF GROUNDWATER CODE**
**OFFICE OF STATE ENGINEER**

**Declaration of Vested Groundwater Rights**
(Under Chapter 231, Montana Session Laws, 1961)

1. **Oscar G. Adolph**, at Flatwillow Route, Roundup
   (Name of Appropriafer) (Address)

   County of: **Musselshell**
   State of: **Montana**

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **1949 used during the summer months since then**

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:
   **windmill**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **Completed in the fall of 1949**

8. The depth of water table: **140 feet**

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
   **Drilled well, 6 in. casing, 140 feet deep**

10. The estimated amount of groundwater withdrawn each year: **4,500 gals.**

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

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

   **Signature of Owner: Oscar G. Adolph**
   Date: **Dec. 23, 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 Appropriafer.

5342
<table>
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<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
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<th>0 ft. to 200 ft.</th>
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<td>Type</td>
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<td>Size</td>
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<th>Perforated or Screened:</th>
<th>Ft. 93 to ft. 108</th>
<th>Ft. 127 to ft. 200</th>
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<th>Type of screen or perforations</th>
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<th>Static water level, for non-flowing well:</th>
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<th>Shut-in pressure, for flowing well:</th>
<th>lb./sq. in. on:</th>
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<td>(cat)</td>
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<th>Pumping water level</th>
<th>feet at</th>
<th>153 gal. per min.</th>
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<th>How tested:</th>
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<th>Length of test</th>
<th>1 hour</th>
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<th>Remarks:</th>
<th>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
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(over)
Log of Well

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<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
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<td>Shale</td>
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</tr>
<tr>
<td>183</td>
<td>183</td>
<td>200</td>
<td>Shale</td>
</tr>
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</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. August B. Adolph
   (Name of Appropriator)
   of 323 Third St. West
   Roundup
   (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 watering

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

   Continuous since 1960

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

   25 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: ____________________________

   spring

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

   Begin June 15; June 25 completion completed.

8. The depth of water table: ____________________________

   4 feet below ground level

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

   30 ft by 12 ft by 6 ft excavation

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: ____________________________

   Notes

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

   Signature of Owner: ____________________________

   Date: ____________________________

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

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

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

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Date: December 19, 1963

August O. Adolph
323 Third St. W
Roundup
Montana

1. I have appropriated groundwater according to the Montana laws in effect prior to January 1, 1960, 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 books and pages of any county record:

Signature of Owner:

Date:

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

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

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

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

1. August C. Adolph
   (Name of Appropriator)
   of 323 Third St. W
   Roundup
   (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: Continuous use since 1964

4. The amount of groundwater claimed (in miner's inches or gallons per minute) ... 6 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
   none

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   Sept. 15, 1964 and completed Oct. 15, 1964

8. The depth of water table Approx. 90 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
   115 feet deep, 8" casing

10. The estimated amount of groundwater withdrawn each year... 350,000 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
   Possible records in AEC office of Musselshell County
   Musselshell

Signature of Owner
August C. Adolph

Date December 19, 1964

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

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

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

**Owner:** August Adolph  
**Address:** Roundup

**Driller:** G. Scammon  
**Address:** Roundup

**Date Started:** November 8  
**Date Completed:** Nov. 13, 1957

**Location:** Sec. 17  
**T. 9  
**R. 25  
**1/4 sec.**

---

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

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

---

**Casing:** (ft. to ft.)  
**Type:**  
**Size:**
- 1 ft. to 150 ft.  
- Type:  
- Size: 6"

---

**Casing:** (ft. to ft.)  
**Type:**  
**Size:**
- 1 ft. to 150 ft.  
- Type:  
- Size:

---

**Perforated or Screened:** (ft. to ft.)  
**Type of screen or perforations:** slotted

---

**Static Water level, for non-flowing well:** 32 ft.

---

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

---

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

---

**How tested:** bailer

---

**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>Description of Material Drilled</th>
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<tbody>
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<td>top soil</td>
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<tr>
<td>8</td>
<td>shale grey sandy</td>
</tr>
<tr>
<td>20</td>
<td>shale grey</td>
</tr>
<tr>
<td>90</td>
<td>sandstone with some thin shale breaks, between sandstone</td>
</tr>
<tr>
<td>150</td>
<td>water bearing</td>
</tr>
<tr>
<td>150</td>
<td>total depth</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)

<table>
<thead>
<tr>
<th>Name of Appropriator</th>
<th>Address</th>
<th>(Town)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oscar G. Adolph</td>
<td>Flatwillow Route</td>
<td>Roundup</td>
</tr>
</tbody>
</table>

County of Musselshell State of Montana

I 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. **Stock water**

2. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1938, used during winter and early spring since then.

3. The amount of groundwater claimed (in miner's inches or gallons per minute). 2 gals 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.

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

6. The depth of water table. 212 feet.

7. The depth of water table. 212 feet.

8. 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.

9. Drilled well, 6 in. casing, 212 feet deep.

10. The estimated amount of groundwater withdrawn each year. 22,000 gals.

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

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

Signature of Owner: Oscar G. Adolph
Date: Dec. 23, 1963

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

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

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

1. **Oscar G. Adolph**, Flat Willow Route, Roundup,
   (Name of Applicant) (Address) (Town)

   County of **Musseleshall**, 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, **shock water**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been, **1950**
   **Use in fall of the year**

4. The amount of groundwater claimed (in miner's inches or gallons per minute) **1 gal. per minute**

5. If used for irrigation, give the acres and description of the land to which water has been applied and names 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 jack and gas engine**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater **not available**

8. The depth of water table **20 ft.**

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater, **not available**

10. The estimated amount of groundwater withdrawn each year, **18,000 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, **any**

---

Signature of Owner **Oscar G. Adolph**

Date **Dec. 23, 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,
MUNSEL-HILL COUNTY,

FILED THIS 27 DAY OF

DEC., A.D. 1963
AT 3:11 O'CLOCK P.M.

B. H. MAIZKA
COUNTY RECORDER

JOSEPH M. DAWSON
DEPUTY
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: Wesley Adolph
Address: Roundup, Montana
File Number: 181258

Date well started: 10/23/70
Completed: 10/27/70

Type of well drilled: Dug
Equipment used: churn
Water Use: Domestic (x) Municipal (x) Stock (x) Irrigation (x)

*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 Desired Hole</th>
<th>Size and Weight of Casing</th>
<th>Depth (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 5/8&quot;</td>
<td>17'</td>
<td>0</td>
<td>35</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Kind of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>casing drove in sandstone</td>
<td>20</td>
<td>35</td>
</tr>
</tbody>
</table>

Static water level 12' ft.
Pumping water level 35' ft.
at 1,200 gallons per minute, measured 3 minutes after pumping began.

*Measured from ground level.

Well developed by selling for 24 hours.
Power: Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
EACH SMALL SQUARE REPRESENTS 10 ACRES

Driller's Signature: Joe Bond
Driller's Address: Box 8998, Roundup, Montana

LICENSE NO. 95

Show exact depth of bottom 247802
WATER WELL LOG

Owner: August G. Adolph  Address: Roundup, Montana
Driller: Gordon Scannon  Address: Roundup, Montana
Date Started: September 30th  Date Completed: Oct. 3, 1957
Location: Sec. 22  T. 9  R. 25  1/4 sec. 30

Type of well: drilled  Equipment used: spudded

Water use: Domestic  Municipal  Stock  Irrigation
Industrial  Drainage  Other:

Casing: 1 ft. to 66 ft. Type: F. E. Size: 1
Casing:  28  36
Casing:  38  48

Perforated or Screened: Ft. to Ft.  Ft. to Ft.
Type of screen or perforations: Slotted

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: flowing 2 gallons per minute
Length of test:

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

Cemented casing from 26 ft. to top of ground

(over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>26</td>
</tr>
<tr>
<td>26</td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td>45</td>
</tr>
<tr>
<td>45</td>
<td>48</td>
</tr>
<tr>
<td>48</td>
<td>62</td>
</tr>
<tr>
<td>62</td>
<td>125</td>
</tr>
<tr>
<td>125</td>
<td>145</td>
</tr>
<tr>
<td>145</td>
<td>153</td>
</tr>
<tr>
<td>153</td>
<td></td>
</tr>
</tbody>
</table>


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

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

and wife, as joint tenants with right of survivorship

| Robert Lind and Florence Lind, husband/ | Roundup |
| of | |

County of Musselshell State of Montana

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

1. Stockwater

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

   1944 and continuously thereafter

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

   4 gal. per min.

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

   not applicable

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

   Withdrawn by pump operated by gas motor through 1 1/4" pipe.

   Located on SE1/4NE1/4 Sec. 25. T. 9N R. 25E

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

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

   Commenced and completed in 1944

8. The depth of water table

   50 feet

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

   Well 60' deep. Water withdrawn by means of gas motor and pump through 1 1/4" pipe.

10. The estimated amount of groundwater withdrawn each year

    150,000 gal. a year

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

    unknown

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

    not applicable

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

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

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

Date. May 31, 1963
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Date Started</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>August G. Adolph</td>
<td>Roundup, Montana</td>
<td>September 16</td>
<td>Sept. 19, 1957</td>
</tr>
</tbody>
</table>

Driller: Gordon Scammon, Address: Roundup, Montana

Location: Sec. 25, T. 9 R. 26 S.E. 1/4

Type of well: Drilled

Equipment used: Spudded

Water use: Stock

Casing: + 1 ft. to 103 ft. Type: T & O Size: 4/8

Perforated or Screened: Ft. 69 to Ft. 90

Type of screen or perforations: Slotted

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: Flowing 24 gallons per minute measured

Length of test:

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

Shut off water with canvas packer pumped cement behind casing above 45 feet to surface

(over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>27</td>
</tr>
<tr>
<td>27</td>
<td>40</td>
</tr>
<tr>
<td>40</td>
<td>44</td>
</tr>
<tr>
<td>44</td>
<td>63</td>
</tr>
<tr>
<td>63</td>
<td>68</td>
</tr>
<tr>
<td>68</td>
<td>82</td>
</tr>
<tr>
<td>82</td>
<td>103</td>
</tr>
<tr>
<td>103</td>
<td></td>
</tr>
</tbody>
</table>
**WATER WELL LOG**

Owner: August Adolph  
Address: Roundup

Driller: Gordon Sommon  
Address: Roundup

Date Started:  
Date Completed:  
Location: Sec. 25 T. 9 R. 25 5/4 sec. 1/4

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Spudded</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water use:</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Industrial</th>
<th>Drainage</th>
<th>Other</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>ft. to</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>61</td>
<td>60</td>
<td>Screw</td>
<td>6&quot;</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>Ft. to</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>45</td>
<td>56</td>
<td>Ft.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well:</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Pumping water level:</th>
<th>feet at</th>
<th>gal. per min</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

*This well was drilled in 1915 — Driller unknown. Gordon Sommon cleaned this well in 1953.*
<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>4</td>
<td>Top soil</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>11</td>
<td>Shale grey</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>20</td>
<td>Sandstone grey hard</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>45</td>
<td>Shale grey</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>47</td>
<td>Sandstone grey hard</td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>56</td>
<td>Sandstone grey water bearing</td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>60</td>
<td>Shale sandy grey</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td></td>
<td>TOTAL DEPTH</td>
<td></td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Oscar C. Adolph
   (Name of Appropriator)
   of Flatwillow Route, Roundup
   (Address)
   County of Musselshell
   State of Montana

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

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

   3. Date or approximate date of earliest beneficial use, and how continuous the use has been; and in 1960, well already on land - have used it in the summer months since then.

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

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: 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: 90 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: drilled well, 6 in. casing, 90 feet deep.

   10. The estimated amount of groundwater withdrawn each year: 69,000 gals.

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

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

   Signature of Owner: Oscar C. Adolph
   Date: Dec. 23, 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.
# Notice of Completion of Groundwater Appropriation by Means of Well

**DEVELOPED AFTER JANUARY 1, 1962**

(Under Chapter 237, Montana Session Laws, 1961)

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

**Musselshell County**

---

### Notice of Completion of Groundwater Appropriation by Means of Well

- **Owner:** Musselshell Co.
- **Address:** Roundup, Mont
- **Driller:** Harvey McConnell
- **Address:** Roundup, Mont

**Date of Notice of appropriation of groundwater**
- **Date well started:** July 15, 1967
- **Date completed:** April 13, 1967

**Type of well:** Drilled

**Equipment used:** Churn drill

**Water use:** Domestic

---

### Strata Table

<table>
<thead>
<tr>
<th>Depth</th>
<th>Strata</th>
</tr>
</thead>
<tbody>
<tr>
<td>80'</td>
<td>Coal</td>
</tr>
<tr>
<td>92'</td>
<td>Coal, mine</td>
</tr>
<tr>
<td>150'</td>
<td>sandy shale</td>
</tr>
<tr>
<td>173'</td>
<td>sandstone</td>
</tr>
<tr>
<td>176'</td>
<td>sandstone</td>
</tr>
<tr>
<td>181'</td>
<td>sandstone</td>
</tr>
<tr>
<td>195'</td>
<td>sandstone</td>
</tr>
<tr>
<td>223'</td>
<td>sandstone</td>
</tr>
<tr>
<td>240'</td>
<td>sandstone</td>
</tr>
</tbody>
</table>

---

### Water Levels

- **Static Water Level for non-flowing well:** 205 feet
- **Shut-In Pressure for Flowing well:**
  - **Pumping Water Level:** 240 feet
  - **Discharge in gal. per min. of flowing well:**
    - **How Tested:** Daily
    - **Length of Test:** 4 hr.

---

### Remarks

- **Remarks:** (Gravel packing, cementing, packers, type of shutoff)
  - **8" casing cemented with 5 ft. cement, 3.4 ft. (2.5")

---

### Diagram

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

---

### Further Information

- **Show exact depth of bottom.**

---

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

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

---

**Driller's License Number:** 43

**Driller's Signature:**

---

**Discharge in gal. per min. of flowing well:**
- **Discharge in gal. per min. of flowing well:**
  - **How Tested:** Daily
  - **Length of Test:** 4 hr.

---

**Remarks:** (Gravel packing, cementing, packers, type of shutoff)
- **8" casing cemented with 5 ft. cement, 3.4 ft. (2.5")**
STATE OF MONTANA,

County of Musselshell

having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Musselshell County Commissioner
David Murphy, Chairman

Subscribed and sworn to before me, this 17 day of April, 1967

Claude J. Labert
Notary Public for the State of Montana
Residing at Roundup, Montana
### WATER WELL LOG

**Owner:** Alma Hamilton  
**Address:** Roundup, Montana

**Driller:** P. L. Ferguson  
**Address:** Roundup, Montana

**Date Started:**  
**Date Completed:** April 10, 1956

**Location:** Sec. 28, T. 9 N., R. 25 W., 3/4 sec. N1/2

---

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

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

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

---

**Casing:**
- **0 ft. to 135 ft.:** Type, Size - 7" casing
- **136 ft. to 330 ft.:** Type, Size - 6" casing

---

**Perforated or Screened:**
- **0 to 180 ft.:** Size - 20 ft.  
- **181 to 280 ft.:** Size - 50 ft.

**Type of screen or perforations:** [ ]

---

**Static Water level, for non-flowing well:** [ ]

**Shut-in pressure, for flowing well:** [ ]

**Pumping water level:** [ ]

**How tested:** Flowing test

**Length of test:** 48 hrs.

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

- 7 in. casing cemented with Calibron from top of hole to 168 ft. to shut off bad water. 4-in. liner set for production string.

---

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 30</td>
<td>Shale and sandrock</td>
</tr>
<tr>
<td>30 - 70</td>
<td>Gray Shale</td>
</tr>
<tr>
<td>70 - 85</td>
<td>Dark Shale</td>
</tr>
<tr>
<td>85 - 105</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>105 - 135</td>
<td>Light shale - coal</td>
</tr>
<tr>
<td>135 - 165</td>
<td>Dark Shale</td>
</tr>
<tr>
<td>165 - 177</td>
<td>Gray Shale</td>
</tr>
<tr>
<td>177 - 188</td>
<td>Sandy shale - water</td>
</tr>
<tr>
<td>188 - 210</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>210 - 270</td>
<td>Gray Shale</td>
</tr>
<tr>
<td>270 - 290</td>
<td>Light Shale - Coal</td>
</tr>
<tr>
<td>290 - 325</td>
<td>Dark Shale</td>
</tr>
<tr>
<td>325 - 335</td>
<td>Light Sandy Shale - water</td>
</tr>
<tr>
<td>335 - 350</td>
<td>Gray 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)

Robert Lind and Florence Lind, husband/wife, as joint tenants with right of survivorship

1. County of Musselshell State of Montana

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been — June, 1949, and continuously thereafter.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) — 7 gal. per min.

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal — Withdrawn by means of windmill and pump. Located in S1/4 NW1/4, Sec. 29-9-25

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater — Commenced and completed June, 1949.

8. The depth of water table — 90 feet.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater — Well 260' deep. Cased with 6' casing. Water withdrawn by windmill and pump through 240' of 1 1/4' pipe.

10. The estimated amount of groundwater withdrawn each year — 150,000 gal. a year.

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

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

Signature of Owner — Robert Lind

Date — May 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 School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA
MUSSELHELL COUNTY

FILED THIS ___ DAY OF
___ A.D. 19__
AT ___ O'LOCK ___

B. H. MATZKE
COUNTY RECORDER

$2.00
DEPUTY

SIGNED

FILED FOR PAYMENT
OF $2.00
**WATER WELL LOG**

<table>
<thead>
<tr>
<th><strong>Owner</strong></th>
<th>Alma Hamilton</th>
<th><strong>Address</strong></th>
<th>Roundup, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Driller</strong></td>
<td>P. L. Ferguson</td>
<td><strong>Address</strong></td>
<td>Roundup, Montana</td>
</tr>
</tbody>
</table>

**Date Started:** May 8, 1955

**Date Completed:**

**Location:** Sec. 32, T. 9, R. 25, 1/4 sec. northeast

**Type of Well:**

- Drilled

**Equipment Used:**

- Cable

**Water Use:**

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

**Casing:**

- 0 ft. to 162 ft. Type: [ ] Size: 7" casing

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

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

**Perforated or Screened:**

- 155 ft. to 160 ft. Type: Slot Perforations

**Type of Screen or Perforations:**

**Static Water Level, for Non-Flowing Well:** feet

**Shut-In Pressure, for Flowing Well:** flows 5 gal. min. in sq. in. on (date)

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

**How Tested:**

- 5 days: [ ] Flowing-test

**Length of Test:** 36 hrs.

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

- Cemented with Halliburton at 127 ft.

- (over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0</td>
<td>To 10 Sandstone</td>
</tr>
<tr>
<td>10</td>
<td>25 Light Shale</td>
</tr>
<tr>
<td>25</td>
<td>35 Blue Shale</td>
</tr>
<tr>
<td>35</td>
<td>75 Sandy Shale</td>
</tr>
<tr>
<td>75</td>
<td>87 Coal bed carrying water (not good)</td>
</tr>
<tr>
<td>87</td>
<td>95 Sandy Shale</td>
</tr>
<tr>
<td>95</td>
<td>105 Hard Shale</td>
</tr>
<tr>
<td>105</td>
<td>120 Hard white sand</td>
</tr>
<tr>
<td>120</td>
<td>133 Sandstone &amp; water</td>
</tr>
<tr>
<td>133</td>
<td>150 Shale</td>
</tr>
</tbody>
</table>
Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

   (Name of Appropriator) (Address) (Town)
   County of Fergus, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is Stockwater.
   (describe lands to be benefited, if for irrigation)
   Not applicable

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 2000 gals./day

@ 5 gals./min.

4. The annual period (inclusive dates) of intended use Year long

5. The probable or intended date of first beneficial use June 1, 1965

6. The probable or intended date of commencement and completion of the well or wells

7. The location, type, size and depth of well or wells contemplated Sec. 32, T. 9N., R. 25E. A drilled and cased well, 115' deep, 6' casing, Pump well

8. The probable or estimated depth of the water table or artesian aquifer 115'

9. Name, address and license number of the driller engaged

10. Give such other similar information as may be useful in carrying out the policy of this act. Inferred

   aquifer in the Hell Creek Sandstone.

   Water will be used at location for watering range livestock

   Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator District Manager
Date: August 13, 1964

As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn.

Three copies of this notice are to be filed with 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.

38523
Notice of Completion of Groundwater Appropriation by Means of Well Developed After January 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: L. H. McDermott
Address: Missoula, Mont.

Driller: L. F. Ferguson
Address: Missoula, Mont.

State of Montana
Administrator of Groundwater Code
Office of State Engineer

Date of Notice of appropriation of groundwater. 6-12-65. Date completed 6-20-65.

Type of well: Artesian
Equipment used: Churn drill, rotary or other
Water use: Domestic [ ] Municipal [ ] Stock [ ] Irrigation [ ] Industrial [ ] Drainage [ ] Other [ ]

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Shale and Weight of Casings</th>
<th>Static Water Level</th>
<th>Shut-in Pressure for Flowing Well</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top of Ground</td>
<td>(Elev. above sea level)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Shale Brown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Shale Blue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Hard Shell</td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Shale Blue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Shale Brown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>Shale - hard, sandy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>Shale - clay, sandy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>75</td>
<td>Shale - little clay, sand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>85</td>
<td>Shale - Sept. Sandy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>Sand - 100 - 125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>86</td>
<td>Sand - 120 - 125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>Shale</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 135 feet.
Shut-in Pressure for Flowing Well: 350 feet at 35 gal. per minute.
Pumping Water Level: 100 feet.
Discharge in gal. per min. of flowing well: 1000 gal.

Remarks: (Gravel packing, cementing, packer, type of shutoff, etc.)

Indicate location of well and place of use, if possible. Each small square represents 40 ac. x 40 ac.

(Continue on reverse side)

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).
Owner: Math Peters
Address: Roundup, MT

Driller: Pelican Equipment
Address: Roundup, MT

Date Started: Dec. 1, 1958
Date Completed: Dec. 12, 1958

Location: Sec. __ T. ___ R. ___ 1/4 sec.

Type of well: Drilled
Equipment used: Regular Spudger

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

Type of screen or perforations:

Casing: C ft. to 105 ft. Type __ Size __

Casing: __ ft. __ ft. Type __ Size __

Perforated or screened: Ft. 12 to ft. 1812 ft. 18 to ft. __

Type of screen or perforations:

Static water level, for non-flowing well: __ ft. from top __ feet.

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

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

How tested: __ hours, fresh test

Length of test: __ hours

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

Gravel packing __ feet, Water good

(over)
**Water Well Log**

**Owner**: Maple Cities  
**Address**: Roundup  
**Driller**: Joe Peters  
**Address**: Roundup

**Date Started**: Aug 1, 1957  
**Date Completed**: Aug 15, 1957  
**Location**: Sec. 34, T. 9, R. 25, \( \frac{1}{4} \) sec.

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

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

**Casing**:  
- 20 ft. to 36 in.  
- Type 20 in.  
- Size 36 in.

**Perforated or screened**:  
- Ft. 100 to Ft. 0  
- Ft. 0 to Ft. 100  
- 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 **20 gal. per min.**

**Tubing tested**:  
- with 4-in. Cylinders, 2-in. piston engine

**Length of test**: **10 hours**

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

- This well was a well that was on fire when bought. We cleaned it out and dug 5 feet deeper & cleaned water flowing normally.
<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>2</td>
<td>Griffith, Kenneth</td>
<td>GW1</td>
<td>169511</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>&quot;</td>
<td>GW2</td>
<td>170980</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Reaplan Rd.</td>
<td>GW1</td>
<td>170981</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>&quot;</td>
<td>GW3</td>
<td>170985</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>&quot;</td>
<td>GW4</td>
<td>170986</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Gieder, Fred</td>
<td>GW2</td>
<td>170987</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Northern Pacific Railway Company</td>
<td>GW1</td>
<td>1709820</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Reaplan Rd.</td>
<td>GW4</td>
<td>1709848</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>&quot;</td>
<td>GW4</td>
<td>1709847</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>U.S. Bureau of Reclamation Management</td>
<td>GW1</td>
<td>1709899</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>&quot;</td>
<td>GW2</td>
<td>172398</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Griffith, Kenneth</td>
<td>GW4</td>
<td>1709891</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>&quot;</td>
<td>GW4</td>
<td>1709821</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>&quot;</td>
<td>GW3</td>
<td>1709812</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>&quot;</td>
<td>57006</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Reaplan, P.A.</td>
<td>GW1</td>
<td>1709850</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>&quot;</td>
<td>GW4</td>
<td>1709846</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Gieder, Fred</td>
<td>GW2</td>
<td>1802282</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Holliday, James</td>
<td>57006</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Eckwerth, Joseph</td>
<td>GW4</td>
<td>1709645</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Holliday, Jim</td>
<td>57004</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Brown, Corine</td>
<td>GW2</td>
<td>172560</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Northern Pacific Railway Company</td>
<td>GW4</td>
<td>170921</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>U.S. Bureau of Reclamation Management</td>
<td>GW2</td>
<td>170921</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Beckmuth, Joseph</td>
<td>GW3</td>
<td>1709644</td>
<td></td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

1. Kenneth Griffith, of Box 166, Roundup
   (Name of Appropriate) (Address)

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

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

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been. August 1, 1948

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

   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. Water found within 14 ft of 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.
   
   10. The estimated amount of groundwater withdrawn each year. 120,000 gal. a year

   11. The log of formations encountered in the drilling of each well if available. Located in 2-7-6

   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 the county record.

   Signature of Owner: Kenneth Griffith
   Date 3-30-65

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  
DAY OF  

A. D. 1963  
AT 12:42 O'CLOCK P.M.  

B. H. MATZKE  
COUNTY RECORDER  

DEPUTY  

MUSSELSHELL COUNTY  

169511
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>Thomas Griffith</td>
</tr>
<tr>
<td>Address</td>
<td>Cameron</td>
</tr>
<tr>
<td>Driller</td>
<td>Cameron</td>
</tr>
<tr>
<td>Date Started</td>
<td>July 15, 1968</td>
</tr>
<tr>
<td>Date Completed</td>
<td>July 30, 1968</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 2 T. 9 R. 26 N.W. 1/4</td>
</tr>
<tr>
<td>Type of well</td>
<td>Extensi Drilled</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Cased</td>
</tr>
<tr>
<td>Water use</td>
<td>Stock</td>
</tr>
<tr>
<td>Casing:</td>
<td>0 ft. to 126 ft. Type: galvanized</td>
</tr>
<tr>
<td>Casing:</td>
<td></td>
</tr>
<tr>
<td>Casing:</td>
<td></td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>90 ft. to 126 ft.</td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td>perforated</td>
</tr>
<tr>
<td>Static Water level for non-flowing well</td>
<td>14 ft. of tap</td>
</tr>
<tr>
<td>Shut-in pressure for flowing well</td>
<td>150 lb./sq. ft.</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>3 feet at 12 gal. per min.</td>
</tr>
<tr>
<td>How tested</td>
<td>Drilled</td>
</tr>
<tr>
<td>Length of test</td>
<td>Good well</td>
</tr>
<tr>
<td>Remarks</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
</tr>
</tbody>
</table>

(over)
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: KENNETH GRIFFITH  Address: ROUNDUP, MONT

Driller: JOE KOMBOL  Address: ROUNDUP, MONT

Date of Notice of Appropriation of Groundwater: JUL 8 1964

Date well started: 3-30-64  Date Completed: 4-30-64

Type of well: DRILLED  Equipment Used: CHURN

Water Use: Domestic  Municipal  Other  Irrigation

---

**Table: Size of Drilled Hole and Depth of Water**

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Depth of Water</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7' 28&quot;</td>
<td>6' 206</td>
<td>0</td>
<td>295</td>
</tr>
<tr>
<td>6' 215</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Perforations**

<table>
<thead>
<tr>
<th>Kind</th>
<th>Size (Inches)</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRAY</td>
<td>102</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td>SAND</td>
<td>179</td>
<td>180</td>
<td></td>
</tr>
<tr>
<td>ROCK</td>
<td>287</td>
<td>293</td>
<td></td>
</tr>
<tr>
<td>SHALE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

Static Water Level for non-flowing Well: 95 feet

Shut-in Pressure for Flowing Well

Pumping Water Level: 180 feet at 3 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested: PALS  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)

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.
### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

**1. P. S. Reeplog**

*Name of Appropriator*  
*Address*  
*Town*

**County of Musselshell**  
*State of Montana*

I hereby declare that 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

- **Domestic & Stockwater**

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

- **1916 - Continuous Use**

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

- **71 gallons/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.

- **Unknown**

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

- **Submersible Electric Pump - Submersible Motor - 4 1/2 HP**

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

- **1916**

#### 8. The depth of water table.

- **185'**

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

- **185' of 6" casing**

#### 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.

- **Unknown**

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

- **None**

**Signature of Owner**:  
*P. S. Reeplog*  
*Date*: **Dec. 27, 1963**

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

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

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