Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws 1961)

STATE OF MONTANA

DEPARTMENT OF NATURAL RESOURCES

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Notice of Completion of Appropriation of Groundwater

File No.

Date of Notice of Appropriation of Groundwater

Date Completed

Top of Ground

(Elev. above sea level 2800)

Sandy yellow clay

Owner: Forman Eldridge  Address: Hana, Montana

Yellow sandstone

Driller: Chris Hardland  Address: Custer, Montana

Shale

Date well started  Date Completed

Grey sandstone, 2 Gal.

Type of well: Drilled  Equipment Used: Spudder

(Use: driven, bored or churn, drill, rotary or other)

Water Use: Domestic  Municipal  Other  Irrigation

Shale

Industrial  Drainage  Stock

Grey sandstone, 2 Gal.

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 and Weight of Casings</th>
<th>Precipitations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 5/8 In. 6 In. C.D.</td>
<td>18 Lbs. Top 265' Bottom 265'</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well 130 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 250 feet at 4 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested By test ballast length of Test 1 Hour

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

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

Show exact depth of bottom.

Driller's License Number

Driller's Signature

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriate.
STATE OF MONTANA,
County of Treasure
OFFICE OF RECORDER OF DEEDS

I hereby certify that the within instrument was filed for record in this office, on the 21st day of November 1963, at 3 o'clock P.M.

[Signature]
M. Anderson
Clerk and Recorder of Treasure County
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: Dec. 31, 1963

Owner: John Anderson  Address: Big Horn, Mont.
Contractor (if any): None

Address of Contractor: ________________________________

Date Started: __________________ Date Completed: __________________

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

Tunneling
Surface of ground & wells
Coullee

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

Not known

10 mos. use per year

Signature of Owner: __________________
Date: __________________

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.
<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Churn drill</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water use:</td>
<td>Domestic</td>
<td>Municipal</td>
<td>Stock</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing:</td>
<td>0 ft. to 6 ft.</td>
<td>Type</td>
<td>6&quot; iron</td>
</tr>
<tr>
<td>Casing:</td>
<td>0 ft. to 3.5 ft.</td>
<td>Type</td>
<td>gal.</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>30 ft. to 3.5 ft.</td>
<td>Type</td>
<td>Standard factory, perforated 6&quot; gal.</td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>100 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb/sq. in. on: (date)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>200 feet at</td>
<td>gal. per min.</td>
<td>4</td>
</tr>
<tr>
<td>How tested:</td>
<td>4 hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of test:</td>
<td>4 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(over)
# Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0'</td>
<td>5'</td>
</tr>
<tr>
<td>5'</td>
<td>7'</td>
</tr>
<tr>
<td>7'</td>
<td>18'</td>
</tr>
<tr>
<td>28'</td>
<td>40'</td>
</tr>
<tr>
<td>40'</td>
<td>42'</td>
</tr>
<tr>
<td>43'</td>
<td>60'</td>
</tr>
<tr>
<td>60'</td>
<td>65'</td>
</tr>
<tr>
<td>65'</td>
<td>70'</td>
</tr>
<tr>
<td>70'</td>
<td>110'</td>
</tr>
<tr>
<td>110'</td>
<td>130'</td>
</tr>
<tr>
<td>130'</td>
<td>183'</td>
</tr>
<tr>
<td>183'</td>
<td>198'</td>
</tr>
<tr>
<td>198'</td>
<td>280'</td>
</tr>
<tr>
<td>280'</td>
<td>320'</td>
</tr>
<tr>
<td>320'</td>
<td>335'</td>
</tr>
<tr>
<td>335'</td>
<td>340'</td>
</tr>
<tr>
<td>340'</td>
<td>355'</td>
</tr>
<tr>
<td>355'</td>
<td>357'</td>
</tr>
</tbody>
</table>

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STATE OF MONTANA

Office of the Register of Titles

[Signature]

[Date]
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: 1963

Owner: John Anderson  Address: Big Horn, 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  

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

NE 4  Sec. 37 T35N R35E

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: Not Known

10 mos. use per year

Signature of Owner: John Anderson  Date: 12/31/63

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,
County of Treasure

OFFICE OF RECORDER OF DEEDS

I hereby certify that the within instrument was filed for record in this office on the __________ day of_________________, 1963.

\[Signature\]

Deputy Clerk of the County of Treasure County.

By: ________________________
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

John N. Anderson
(Name of Appropriator)

of Big Horn
(Address)

County of Treasure
(Town)

State of Montana

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

1. Place of Appropriation

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

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

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof:
   none

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   1935

8. The depth of water table:
   150 ft.

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:
   340 ft. deep 6 in. Casing

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

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

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:
    do not know

Signature of Owner: John Anderson

Date: 3/31/63

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

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

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

County of Treasure

OFFICE OF RECORDER OF DEEDS

I hereby certify that the within instrument was filed for record in this office on the 31st day of
Dec 1963 at 4 o'clock P.M.

[Signature]

[Name]

[Officer of Court and Recorder of Treasure County]
**WATER WELL LOG**

**Owner:** John Anderson  
**Address:** Big Horn

**Driller:** C.S. Jones  
**Address:** Hardin, Mont.

**Date Started:** June 26, 1961  
**Date Completed:** June 29, 1961

**Location:** Sec 34, T 5 R 35 East 1/4 sec 5E

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

<table>
<thead>
<tr>
<th>Equipment used</th>
<th>Churn drill</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Type of well drilled</th>
<th>Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Churn drill</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Equipment used</th>
<th>Churn drill</th>
</tr>
</thead>
</table>

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

**Water use:** Stock

**Casing:** 0' ft. to 26 feet  
**Type:** Iron  
**Size:** 6"

**Casing:** 0' ft. to 165 feet  
**Type:** Pvc  
**Size:** 5"

**Casing:** 165' ft. to  
**Type:**  
**Size:**

**Perforated or Screened:** 93' to 165' feet

**Type of screen or perforations:** Standard Factory perforated

**Static Water level, for non-flowing well:** 55' from top of ground feet

**Shut-In pressure, for flowing well:**  
(date)

**Pumping water level:** 55' feet at 15 gal. per min

**How tested:** Bail

**Length of test:** 2 hours

**Remarks:** (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
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<tbody>
<tr>
<td>0' - 10'</td>
<td>Soil</td>
</tr>
<tr>
<td>10' - 19'</td>
<td>Gravel - all colors</td>
</tr>
<tr>
<td>19' - 20'</td>
<td>Coal &amp; shale L Grey</td>
</tr>
<tr>
<td>20' - 25'</td>
<td></td>
</tr>
<tr>
<td>25' - 42'</td>
<td>L Grey Shale</td>
</tr>
<tr>
<td>42' - 46'</td>
<td>Hard Shell</td>
</tr>
<tr>
<td>46' - 56'</td>
<td>L Grey Sand - water - seep</td>
</tr>
<tr>
<td>56' - 60'</td>
<td>Light Grey Shale</td>
</tr>
<tr>
<td>60' - 70'</td>
<td>Brownish Shale</td>
</tr>
<tr>
<td>70' - 75'</td>
<td>L Grey Shale</td>
</tr>
<tr>
<td>75' - 78'</td>
<td>L Grey Sand - water - seep</td>
</tr>
<tr>
<td>78' - 115'</td>
<td>L Grey Shale</td>
</tr>
<tr>
<td>115' - 165'</td>
<td>Light Grey Sandrock - Water</td>
</tr>
</tbody>
</table>
## Groundwater Index

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<td>2.</td>
<td>Cari Verich, C. Ray</td>
<td>GW-H</td>
<td>27221</td>
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<td>Cummins, J. D.</td>
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<td>Montana High Comm.</td>
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<td>Kolb, Anna</td>
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<td>Miller, Harold R.</td>
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<td>Carterick, Ray C.</td>
<td>GW-H</td>
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<td>GW-H</td>
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<tr>
<td>25.</td>
<td>Ferguson, Gerald</td>
<td>GW-H</td>
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<tr>
<td>27.</td>
<td>Carterick, C. Ray</td>
<td>GW-H</td>
<td>65583</td>
<td></td>
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<tr>
<td>28.</td>
<td>Verholst, Ed.</td>
<td>GW-H</td>
<td>65583</td>
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<td>65583</td>
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<tr>
<td>29.</td>
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<tr>
<td>29.</td>
<td></td>
<td>GW-H</td>
<td>65583</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)

C. Ray Garverich
(Name of Appropriator)

Rysham, Montana
(Address)

County of Treasure
(State of Montana)

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

1. Name of Appropriator

2. The beneficial use on which the claim is based

watering livestock

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

July 20, 1956 used continuously since completed

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

ten (10) gallons per minute

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

not applicable

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

commenced June 28, completed July 20, 1956

8. The depth of water table

185 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 with a seven inch hole 189 feet deep, cased with 185 feet of Type 20 six-inch galvanized pipe

10. The estimated amount of groundwater withdrawn each year

273,750 gallons per year

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 applicable

Signature of Owner

Date January 3, 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.
Declaracion de Usada

[Signature]

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

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

COUNTY CERTIFICATE

1. [Name of Appropiator] of [Address], of [Town], County of [County], State of [State], 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 prior to 1958:

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

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

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

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

8. The depth of water table:

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

10. The estimated amount of groundwater withdrawn each year:

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

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

Signature of Owner

Date

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

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

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

31593
Name of Well: 

Date of Notice of appropriation of groundwater: January 31, 1966

Date well started: January 29, 1966

Date completed: January 29, 1966

Type of well: Dug, Driven, bored or drilled

Equipment used: Churn drill, rotary or other

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

Early Zone Water Supply:

Depth of Water:

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

---

Static Water Level for non-flowing well, 28 ft.

Pumping Pressure for Flowing Well: 28 ft.

Pumping Water Level: 28 ft.

Discharge in gal. per min. of flowing well: 28 gal.

How Tested: Pumped

Length of Test: 2 hours

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

(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, Bloc and Adj.)

NITRATE ANALYSIS

---

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, one copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Montana Highway Commission

Address: Helena, Montana

Date of Notice of appropriation of groundwater: February 4, 1966

Date well started: January 28, 1966. Date completed: February 2, 1966

**Type of well:** Drilled

**Equipment used:** Churn drill, rotary or other

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

**Most Apparent Water Supply**

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>Depth</th>
<th>Strata Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>34.0'</td>
<td>Grey clay</td>
</tr>
<tr>
<td>46.0'</td>
<td>Grey sandy shale</td>
</tr>
<tr>
<td>61.5'</td>
<td>Bottom of casing shoe &amp; Soft grey sandstone SE-1/8</td>
</tr>
<tr>
<td>76.0'</td>
<td>Grey sandy gravel</td>
</tr>
<tr>
<td>75.0'</td>
<td>Bottomed hole in grey sandy gravel 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).</td>
</tr>
</tbody>
</table>

**PERFOSATIONS**

<table>
<thead>
<tr>
<th>Depth (Feet)</th>
<th>Diameter (Inches)</th>
<th>Weight of casing (Pounds per foot)</th>
<th>Static Water Level (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>61.5'</td>
<td>6'</td>
<td>0.0'</td>
<td>28.0'</td>
</tr>
</tbody>
</table>

**Shut-in Pressure for Flowing Well**

Pumping Water Level: 48.0 feet at 16 gallons per minute

Discharge in gal. per min. of flowing well: n/a

**How Tested:** Pumpped

**Length of Test:** 8 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) None


drawings, diagrams, and tables will be shown here.

**WATER ANALYSIS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>7.5</td>
</tr>
<tr>
<td>CO₂</td>
<td>52 p.p.m.</td>
</tr>
<tr>
<td>Calcium &amp; Magnesium bicarbonate</td>
<td>382 p.p.m.</td>
</tr>
<tr>
<td>Sodium bicarbonate</td>
<td>82 p.p.m.</td>
</tr>
<tr>
<td>Water is basic</td>
<td></td>
</tr>
</tbody>
</table>

**Driller's Signature:**

[Signature]

[Driller's License Number]

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.
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: [Name]
Address: [Address]
Driller: [Name]
Address: [Address]

Date of Notice of Appropriation of Groundwater: [Date]
Date Well Started: [Date]
Date Completed: [Date]

Type of Well: Drilled
Equipment Used: Churn

Water Use: Domestic [ ]
Municipal [ ]
Other [ ]
Irrigation [ ]
Industrial [ ]
Drainage [ ]
Stock [ ]

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 Defined Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7&quot;</td>
<td>Plastic</td>
<td>0</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ABS Used Casing</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: [Feet]
Shut-in Pressure for Flowing Well: [Not Applicable]
Pumping Water Level: [Feet at] [Gal. per minute]
Discharge in gal. per min. of flowing well: [Not Applicable]
How Tested: [Drilled]
Length of Test: [This]

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)

[Not Applicable]

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

Driller’s License Number: [Number]
Driller’s Signature: [Signature]

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
NOTICE OF COMPLETION OF
GROUNDWATER APPROPRIATION
BY RISER OF WELL

G. A. Kold

SECTION 9-5 R. 36N.

STATE OF MONTANA
County of Treasure
OFFICE OF RECORDER OF DEEDS

I hereby certify that the within instrument was filed for record in this
office on the 21st day of April, 1964, at 2:20 P.M.

Larson, M.
Clerk, Rec. and Recorder of Treasure County.

(Handwritten Signature)
STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

HAROLD R. MILLER of Sanders

County of TREATURE 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1936 - YEARLY

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 3 GALS. PER MIN.

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   NE 1/4 SE 1/4 Sec. 12 T. 5 R. 36
   PUMP - NE 1/4 SE 1/4 Sec. 12 T. 5 R. 36

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

8. The depth of water table: 10 FT.

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:
   HAND DUG - 50 GALS. GALVANIZED
   DRILL 15 FT. DEEP - WIND MILL

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

11. The log of formations encountered in the drilling of each well if available:
   12 FT. GRAVEL & SAND

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: HAROLD R. MILLER

Date: Dec. 31, 1963

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

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

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

OFFICE OF RECORDER OF DEEDS

I hereby certify that the within instrument was filed for record in this office on the 31st day of Dec. 1963 at 4 o'clock P.M.,

[Signature]

M. V. //\ McCall
Clerk and Recorder of Treasure County

By ________

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

Notice of Completion of Groundwater Appropriation
Without Well
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater:    1936
Owner: Harold R. Miller
Address: Sanders, Montana
Contractor (if any): None
Address of Contractor: None
Date Started: 1936
Date Completed: 1936

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.
Dug by hand 3 ft.
by 10 ft. 2 ft. deep

Quantity of water developed and used with explanation of method used to measure or estimate such amount: If used in irrigation estimate approximate lengths of periods of use.
Spring will water 20 units per day
approx. 300 gals. daily
It is used 9 months per yr.

Signature of Owner: Harold R. Miller
Date: Dec. 31, 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 quadriPLICATE for the Appropriator.
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

STATE ENGINEER

Owner: Harold Miller  Address: Hyglen, Mont
Driller: L. M. Turner  Address: Anaconda, Mont

Date Started: 4/2/60  Date Completed: 4/30/60

Location: Sec. 13 T. 1 R. 36  44 sec

Type of well: Drilled  Equipment used: Drilled

Water use: Stock

Industrial

Municipal

Stock

Irrigation

Casing: 0 ft. to 110 ft.  Type: Iron pipe  Size: 7" D. O. D.

Casing: 110 ft. to 110 ft.  Type: Iron pipe  Size: 6" D. O. D.

Perforated or Screened: 38 ft. to 110 ft.  Type: Vertical drilled

Type of screen or perforations:

Static Water level, for non-flowing well:

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

Pumping water level: 7.0 feet at  7 gal. per min

How tested: Bailed

Length of test: 2 hrs.

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

RECEIVED  DEC 21 1960

STATE ENGINEER
### Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 1 To 10</td>
<td>Sandy Clay</td>
</tr>
<tr>
<td>10 To 20</td>
<td>Sand</td>
</tr>
<tr>
<td>20 To 30</td>
<td>Sand</td>
</tr>
<tr>
<td>30 To 40</td>
<td>Dravel Clay</td>
</tr>
<tr>
<td>40 To 50</td>
<td>Sandy Shale</td>
</tr>
<tr>
<td>50 To 60</td>
<td>Sandy Shale</td>
</tr>
<tr>
<td>60 To 65</td>
<td>Hard Lime</td>
</tr>
<tr>
<td>65 To 70</td>
<td>Black Shale</td>
</tr>
<tr>
<td>70 To 100</td>
<td>Sand - Water Line - 7 gal per min.</td>
</tr>
<tr>
<td>100 To 110</td>
<td>Shale</td>
</tr>
</tbody>
</table>

Signed: [Signature]

Ex. 13-2-36

State of [State]

COUNTY OF: [County]

[Signature]

RECEIVED: [Date]

[Stamp]
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. **Harold R. Miller**
   - (Name of Appropriator)
   - (Address)
   - (Town)

   County of **TREASURE**
   State of **MONTANA**

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   - **1957** - **YEARNLY**

4. The amount of groundwater claimed (in miner's inches or gallons per minute): **2 GALS. PER. MIN.**

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   - **1957**

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:
   - **DRIVEN WEL **
   - **CASING** - **120 FT. DEEP** - **WIND MILL**

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

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

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: **Harold R. Miller**
   Date: **Dec. 31, 1963**

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Declaration of Vested
Groundwater Rights
Sec 15 T. 36 N
Harold Miller
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0</td>
<td>247</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>14 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>13.9 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>18 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>19 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>19.5 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>24 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>25.5 ft.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing Well.** 150 feet.

**Shut-in Pressure for Flowing Well.** Not Applicable.

**Pumping Water Level.** 23.7 feet at 20 gal. per minute.

**Discharge in gal. per min. of flowing well.** Not Applicable.

**How Tested.** Drilled. Length of Test 2.1 hours.

**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.) Not Applicable.

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.
Notice of Completion, off by well

STATE OF MONTANA,
County of Treasure
OFFICE OF RECORDER OF DEEDS
I hereby certify that the within instrument was filed for record in this office, on the 22 day of
SEPTEMBER, 1936, at 11 o'clock, A.M.

[Signature]
[Name]
 Recorder and Register of Deeds County of Treasure

[Signature]
[Deputy]
DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

C. Ray Garverich

(Name of Appropriator)

Hysham, Montana

(Address)

(Town)

County of Treasure

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

watering livestock

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

January 8, 1958 used continuously daily except for short time each winter.

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

seven (7) gallons per minute

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

not applicable

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

gas motor and pump

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

commenced drilling on December 20, 1957 and completed well on January 8, 1958.

8. The depth of water table

185 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 with a seven inch hole.

10. The estimated amount of groundwater withdrawn each year

not applicable

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

at 30 feet clay, at 35 feet sand rock, at 42 feet blue shale, at 50 feet sand rock.

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

Date December 28, 1961

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,
County of Treasure,

OFFICE OF RECORDER OF DEEDS

I hereby certify that the within instrument was filed for record in this office, on the 26th day of April 1907, at 11:30 A.M.

By the County Recorder,

C. Ray Tarvanch

Declaration of Water Ground

Water Right

[Handwritten signature]
<table>
<thead>
<tr>
<th>Owner</th>
<th>Ray Garvinich</th>
<th>Address</th>
<th>Butte, Mont.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>G. M. Sisner</td>
<td>Address</td>
<td>Butte, Mont.</td>
</tr>
</tbody>
</table>

**Date Started:** Dec. 24, 1957  **Date Completed:** Jan. 8, 1958

**Location:** Sec. 23 T. 36 N. R. 5 E. 1/4 sec.

**Type of well:** **Quartz (Water)**  **Equipment used:** **Cable jack (chain)**

**Water use:** Domestic  Stock  Irrigation

**Industrial**  **Drainage**  **Other:**

**Casing:**
- Type: $9$  **Gage**  Size: $6$ in.
- Length: $16$ ft. to $18.5$ ft.

**Perforated or Screened:**
- Length: $62$ ft. to $18.5$ ft.
- Total: $178$ ft. to $18.5$ ft.

**Type of screen or perforations:**
- tester mode

**Static Water level, for non-flowing well:** $95.7$ ft.

**Shut-in pressure, for flowing well:** $19.0$ lb./sq. in. on: (date)

**Pumping water level:** $80$ ft. feet at $50$ ft. gal. per min. $7$ gal.

**How tested:** **Bailer**

**Length of test:** 2 hours 30 minutes

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

(over)
## Log of Well No. 1, C. Ray Garnerish

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 15</td>
<td>Quicks 185 ft. Tin Pole</td>
</tr>
<tr>
<td>15 - 20</td>
<td>Clay</td>
</tr>
<tr>
<td>20 - 30</td>
<td>Sandrock</td>
</tr>
<tr>
<td>30 - 35</td>
<td>Sandrock</td>
</tr>
<tr>
<td>35 - 40</td>
<td>Blue shale</td>
</tr>
<tr>
<td>40 - 50</td>
<td>Sand rock</td>
</tr>
<tr>
<td>50 - 110</td>
<td>Blue shale</td>
</tr>
<tr>
<td>110 - 145</td>
<td>Gray sandy silt</td>
</tr>
<tr>
<td>145 - 165</td>
<td>Brown shale</td>
</tr>
<tr>
<td>165 - 185</td>
<td>Blue mud and silt</td>
</tr>
</tbody>
</table>

*7 gal. per Min.*
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Gerald Ferguson

County of Treasure
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. 1951

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

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. 205 ft. deep Lost water

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. Im losing

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

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.

Signature of Owner: Gerald Ferguson

Date: 12-27-63

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 Fertile II
Groundwater rights
Sec. 25 T. 11 R.
Gerald Ferguson

STATE OF MONTANA
County of Treasure
OFFICE OF RECORDER OF DEEDS
I hereby certify that the within instrument was filed for record in this office on the 27th Day of
Dec. 1963, at
Received of St.

[Signature]
Recorder of Deeds
County and Recorder of Treasure County.

[Signature]

 Jas. Lee
<table>
<thead>
<tr>
<th><strong>MONTANA BUREAU OF MINES AND GEOLOGY</strong></th>
<th><strong>WATER WELL LOG</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STATE ENGINEER</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Owner:** Gerald Fergusen  
Address: Hysham, Mont.

**Driller:** C. M. Jamieson  
Address: Forsyth, Mont.

**Date Started:** 4/9/60  
**Date Completed:** 4/22/60

**Location:** Sec. 26, T. 8 N., R. 96 W., 1/4 sec.

**Type of well:** Drilled  
**Equipment used:** (Churn drill, rotary, other)

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

**Casing:**  
- Type: [ ]  
- Size: [ ]

**Perforated or Screened:**  
- Type: [ ]  
- Size: [ ]

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

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

**Pumping water level:** 200 feet at 3 gal. per min.

**How tested:** Replied

**Length of test:** 2 hrs.

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

---

**RECEIVED**

---

**STATE ENGINEER**
<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>20</td>
</tr>
<tr>
<td>20</td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td>35</td>
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<td>35</td>
<td>45</td>
</tr>
<tr>
<td>45</td>
<td>95</td>
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<tr>
<td>95</td>
<td>110</td>
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<tr>
<td>110</td>
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<tr>
<td>130</td>
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<tr>
<td>145</td>
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</tr>
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<td>170</td>
<td>180</td>
</tr>
<tr>
<td>180</td>
<td>210</td>
</tr>
<tr>
<td>210</td>
<td>230</td>
</tr>
<tr>
<td>230</td>
<td>235</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. Ray Carverich
   (Name of Appropriator)
   of
   Rynsham, Montana
   (Address)
   (Town)
   County of
   Treasure
   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
   watering livestock

3. Date or approximate date of earliest beneficial use and how continuous the use has been
   August 10, 1958
   used every day except when shut down for a short time each winter

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   not applicable

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   August 10, 1958
   July 7, 1958 commenced drilling, completed well on

8. The depth of water table
   240 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 with a seven inch hole
   240 feet deep, cased with 240 feet type 20 galvanized pipe 6 inch

10. The estimated amount of groundwater withdrawn each year
    219,000 gallons per year
    estimated

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 applicable

Signature of Owner
Date

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA
County of Treasure
OFFICE OF RECORDER OF DEEDS
I hereby certify that the within instrument was filed for record in this office on the 2nd day of June, 1962, at 11:30 A.M.

State, County, and Recorder of Treasure County
Deputy
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Name of Appropriator: Ed Verhelst
   Address: Big Horn, Montana
   County: Treasure
   State: Montana
   I have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been—1951
   6 months each year for livestock watering

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater—1961

8. The depth of water table—300 feet well about 100 feet of water

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.

   seven-inch casing—300 feet well about 100 feet of water

10. The estimated amount of groundwater withdrawn each year—270,000 gallons per year

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.

Signature of Owner—Ed Verhelst
Date—December 28, 1962

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Approprietor.
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

## Declaration of Vested Groundwater Rights

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

2. **County of Appropriation**:  
   - **State of Montana**

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

4. Date or approximate date of earliest beneficial use; and how continuous the use has been:  
   - **1926 or before**  
   - **Used 6 months each year for livestock watering**

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:  
   - **1926 or before**

8. The depth of water table:  
   - **130 foot well about 65 feet of water**

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:  
   - **Four inch piping 130 foot deep 63 feet water**

10. The estimated amount of groundwater withdrawn each year:  
    - **270,000 gallons per year**

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

---

**Signature of Owner**:  
**Date**: December 28, 1962

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Appropriator.
STATE OF MONTANA,
County of Treasure
OFFICE OF RECORDER OF DEEDS
I hereby certify that the within instrument containing 1 page(s) was recorded in this office on the 4th day of July, 1966 at 10:00 o'clock A.M. by

[Signature]

County Clerk and Recorder of Treasure County
By

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

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

(under the name of approprator)

of

(Address)

(Town)

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

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

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

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

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

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

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

8. The depth of the water table:

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

10. The estimated amount of groundwater withdrawn each year:

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

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

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 Approporator.
STATE OF MONTANA
County of Treasure

OFFICE OF RECORDER OF DEEDS

I hereby certify that the within instrument was filed for record in this office on the day of

December 30, 1928, at 3

[Signature]

County Clerk and Recorder of Treasure County.
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<tr>
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<td>Ballard, Lyle &amp; Ethel</td>
<td>GW-H</td>
<td>AES-23</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>GW-3</td>
<td>AES-24</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Ferguson, Carol/Becky</td>
<td>GW-H</td>
<td>AES-34</td>
<td></td>
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<td>8</td>
<td>Chriswell, Leslie</td>
<td>Well Log</td>
<td>AES-31</td>
<td></td>
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<td></td>
<td>GW-3</td>
<td>AES-97</td>
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<td>16</td>
<td>DoCuny, Oscar</td>
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<td>Chriswell, Leslie</td>
<td>Well Log</td>
<td>AES-97</td>
<td></td>
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<td>Ferguson, Carol/Becky</td>
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<td>17</td>
<td>Gerald</td>
<td></td>
<td>AES-32</td>
<td></td>
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<td>Ramie, James 2</td>
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<td>AES-94</td>
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</table>
STATE OF MONTANA

ADMINISTRATORS OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

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

LYLE & ETHEL BALLARD, of Hysham
(Name of Appraoiator)
(Address)
(Town)
County of Treasure
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: Oct. 1954, continuously

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 30 gal. per min.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: none

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

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

8. The depth of water table: 25 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, 7½-in. pipe, 72 ft. deep

10. The estimated amount of groundwater withdrawn each year: 950,000 gallons

11. The log of formations encountered in the drilling of each well if available:
- 0-9 ft. Sandy top soil
- 9-12 ft. Sand
- 12-25 ft. Clay gravel
- 25-35 ft. Gravel & water
- 35-37 ft. Gravel & water
- 37-71 ft. Li 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: pump with 3 inch cylinder

Signature of Owner: LYLE BALLARD
Date: Dec. 31, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appraoiator.
STATE OF MONTANA,
County of...
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: Natural Spring
Owner: Lyle & Ethel Ballard
Address: Hysham, 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. Water runs out.

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 all year.

Water runs into Sarpy Creek.

2,000,000 gallons

Signature of Owner: Lyle Ballard
Date: Dec. 30, 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,
County of Treasure,

I hereby certify that the within instrument was filed for record in this office on the 31st day of Dec. 1963, at

[Signature]
Deputy
County Clerk and Recorder of Treasure County.
DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1969)

Gerald Petterson
Name of Appropriator

Mary G. Hite
Address

Hysham
Town

County of

MT

State of

MT

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>
</tr>
</thead>
<tbody>
<tr>
<td>NW 1/4</td>
<td>Sec. 9</td>
<td>T 5 R 37</td>
</tr>
</tbody>
</table>

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: **STACK WATER**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **Mar. 1961**

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:

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: **STACK PUMP & ENGINE**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **March 1961**

8. The depth of water table: **20' deep 4' water**

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: **20' deep, 6 in. 3' DIA. CAST IRON**

10. The estimated amount of groundwater withdrawn each year: **160,000 GALLONS**

11. The log of formations encountered in the drilling of each well if available: **2'-5' sand & gravel, 11'1/2' clay**

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: **Mary G. Hite**

Date: **Feb. 15, 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:** Leslie Crissell  
**Address:** Miles, Montana

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

**Date Started:**  
**Date Completed:** October 1919

**Location:** Sec 18, T 5 N, R 37 W, 1/4 sec NWSE

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Dug, driven, bored, or drilled)</td>
<td>Hand dug all the way</td>
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</table>

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

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

<table>
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<tr>
<th>Casing:</th>
<th>Type</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>0 ft. to 19 ft.</td>
<td>Concrete</td>
<td>5 ft.</td>
</tr>
<tr>
<td>19 ft. to 2/4 ft.</td>
<td>Brick</td>
<td>4 ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
</table>

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

**Type of screen or perforations:**

**Static Water level, for non-flowing well:** 21 feet

**Shut-in pressure, for flowing well:** 22 lb/sq. in. on: (date)

**Pumping water level:** 22 feet at 6 gal. per min.

**How tested:** Engine on cylinder pump

**Length of test:** 2 hrs.

**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>
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<tbody>
<tr>
<td>0 to 23</td>
<td>Sandy loam &amp; sand</td>
</tr>
<tr>
<td>23 to 24</td>
<td>Sandy gravel</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation 
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1960

Owner: Leslie Criswell
Address: Hysham, Mont.

Contractor (if any): None

Address of Contractor:

Date Started: July 1960
Date Completed: Aug. 1960

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

Nature spring

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:

5 gal. per minute by bucket measure.

10 mos. use per year

Signature of Owner: Leslie Criswell
Date: 12/31/63

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

County of Treasure

OFFICE OF RECORDER OF DEEDS

I hereby certify that the within instrument was received in this office on the 8th day of December, 1963, at 10 o'clock, A.M.

Marian Hebel, Clerk and Recorder of Treasure County
By:  
Deputy