As the Administrator of the Groundwater Code for the State of Montana, please take note of the following special instructions, in order to properly protect your groundwater right.

Special Instructions:

According to the location indicated (74N W5E) on the attached map, the well is located in Carter County and not in Stillwater County, as previously recorded. The well should be reclassified and filed in the county in which its well construct is located. Please check the location to see that it is correct.

49,787

---

Equipment Used -

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

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

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of</th>
<th>Type of Well</th>
<th>From</th>
<th>To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>3&quot;</td>
<td>0</td>
<td>189</td>
<td>slotted 340-420</td>
</tr>
</tbody>
</table>

Static water level: ...... ft.

Pumping water level: ...... ft.


*Measured from ground level.

Well developed by: 

for: .......... hours.

Power: Pump: .......... HP

Remarks: Grave packing, cementing, packers, type of shutoff: .........

Flow: 10 gpm at 5 psi.

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

Driller's Signature: 

Driller's Address: 

Montana Water Well Drillers LICENSE NO. 183

---
**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL**

**Developed after January 1, 1962**

(Under Chapter 227 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:** Palm Ranch

**Address:** Ilay, Montana

**Date well started:** Nov 27, 1972

**Completed:** Nov 28, 1972

**Type of well drilled:**

- [ ] Open
- [ ] Drilled

**Equipment used:**

- [ ] Rotary
- [ ] Other

**Water Use:**

- [ ] Domestic
- [ ] Municipal
- [ ] Stock
- [ ] Irrigation
- [ ] Industrial
- [ ] Drainage
- [ ] Other
- [ ] Garden/Lawn

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

---

**ESTIMATED ANNUAL WITHDRAWAL:** 6000 gallons

**Units of Withdrawal:**

- [ ] 6000 gallons

**Size of Withdrawal:**

- [ ] 189 gallons

**Size of Canal:**

- [ ] 189 gallons

**Flow:**

- [ ] 420 gallons per minute

**Duration of Flow:**

- [ ] 4 hours

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

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

**Driller's Signature:**

**Driller's Address:** 224 Reinhardt, Butte, MT 59701

---

**Flow:** 10.5 gpm

**Flow:** 4.5 psi

---

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

**Driller's Signature:**

**Driller's Address:** 224 Reinhardt, Butte, MT 59701

---

**Show exact depth of bottom:** 40 ft.
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: Pala Ranch
Address: Lasty, Montana

Date well started: Nov 27, 1978
Completed: Nov 28, 1978

Type of well: Drilled

Equipment used: Rotary

Water Use: Domestic □ Municipal □ Stock □ Irrigation □
Industrial □ Drainage □ Other □ Garden/Lawn □

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL: 61,000 gallons

Top of Ground (Elev. above sea level)

From (Feet) To (Feet)
0 34 sand and gravel
34 - 160 loam and streaks of co.
160 210 sand
210 220 sand

Driller's Signature: ......................................................
Driller's Address: ......................................................
Form No. 18
S-60

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

Water Well Log

Owner: Ethel C. Hanley
Address: Florence, Montana

Driller: Geo. Ansley
Address: Miles City, Montana

Date Started: Nov. 6, 1952
Date Completed: Dec. 1, 1952

Location: Sec. 12 T. 4 N. R. 57 E. 1/4 sec. SW

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

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

Casing:
- 0 ft. to 170 ft. Type Iron pipe Size 4 Inch
- 170 ft. to 317 ft. Type Iron pipe Size 2 Inch
- Above 317 ft. Type Size

Perforated or Screened:
- Ft. 257 to Ft. 317 ft. Type of Screen or Perforations drilled by Cutting Torch

Static water level, for non-flowing wells: Artesian flow feet.

Shut-in pressure, for flowing wells: 1 lb./sq. in. on: (date)

Pumping water level feet at gal. per min.

How tested:

Length of test

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

Artesian flow of 18 gal. per minute

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0 to 2</td>
<td>Top soil</td>
</tr>
<tr>
<td>From 2 to 30</td>
<td>Sand</td>
</tr>
<tr>
<td>From 30 to 35</td>
<td>Coal</td>
</tr>
<tr>
<td>From 35 to 150</td>
<td>Shale</td>
</tr>
<tr>
<td>From 150 to 170</td>
<td>Water sand</td>
</tr>
<tr>
<td>From 170 to 180</td>
<td>Sand rock</td>
</tr>
<tr>
<td>From 180 to 257</td>
<td>Shale</td>
</tr>
<tr>
<td>From 257 to 317</td>
<td>Water sand</td>
</tr>
</tbody>
</table>
Form No. 18

8-60 T. 4 Nth R. 57 Ew. t

County Carter

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

Water Well Log

<table>
<thead>
<tr>
<th>Owner</th>
<th>Pat Hanley</th>
<th>Address</th>
<th>Plevna, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>C. L. Is'lin</td>
<td>Address</td>
<td>Baker, Montana</td>
</tr>
<tr>
<td>Date Started</td>
<td>November 11, 1961</td>
<td>Date Completed</td>
<td>Nov. 18, 1961</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 14 T. 4 N. R. 57 E. ½ sec. N.W. SE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Rotary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water use</td>
<td>Domestic [x]</td>
<td>Municipal [x]</td>
<td>Stock [x]</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Irrigation</td>
</tr>
<tr>
<td>Casing</td>
<td>0 ft. to</td>
<td>Type Iron pipe</td>
<td>Size 2 In.</td>
</tr>
<tr>
<td></td>
<td>120 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ft. to</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td></td>
<td>ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perforated or Screened</td>
<td>Ft. 80 to Ft. 120</td>
<td>Ft. to Ft.</td>
<td></td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td>Holes cut with cutting torch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static water level, for non-flowing well:</td>
<td>feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb./sq. in. on: (gal.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>feet at gal. per min.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>How tested:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of test</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Artesian flow at 10 gal per minute

(cov)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>2</td>
<td>top soil</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>5</td>
<td>Sandy</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>10</td>
<td>Gravel</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>15</td>
<td>Punnie sand</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>64</td>
<td>Sand</td>
</tr>
<tr>
<td></td>
<td>64</td>
<td>76</td>
<td>Coal</td>
</tr>
<tr>
<td></td>
<td>76</td>
<td>110</td>
<td>Water sand</td>
</tr>
<tr>
<td></td>
<td>110</td>
<td>121</td>
<td>clay</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

Owner: Pat Hanley
Date of Notice of Appropriation of Groundwater:
Type of well: Drilled
Equipment Used: Rotary
Water Use: Domestic

Top of Ground Surface:
1. Tan Sandy Clay
2. Tan Sand
3. White gravel sand
4. Olive brown shale
5. Brown shale
6. Clay shale
7. Clay shale
8. Clay shale

Date Well Started: 7/22/65
Date Completed: 7/24/65

Static Water Level for Non-Flowing Well:
Shut-In Pressure for Flowing Well:
Pumping Water Level:
Discharge in gal. per min. of Flowing Well:
How Tested:
Remarks:

Driller's License Number:
Driller's Signature:

This form to be prepared by driller, and three copies to be filed by 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.
CARTER COUNTY
EKALAKA, MONTANA
Filed for Record
at 10:15 a.m.
AUG 23 1865

Jane M. Breathe

Fee: $2.00
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: E. T. Hanley 
Address: Plentywood, Mont.

Date of Notice of Appropriation of Groundwater: ____________

Date Well Started: ____________ Date Completed: ____________

Type of well: Drilled Equipment Used: Rotary (Churn, drill, rotary or other)

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. Depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Static Water Level for non-flowing Well: ____________ feet.
Shut-in Pressure for Flowing Well:
Pumping Water Level: ____________ feet at: ____________ gal. per minute.
Discharge in gal. per min. of flowing well:
How Tested: ________ Length of Test: ________ 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; duplicates to the State Engineer; triplicates to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

24404
123979

CARTER COUNTY
KALANA MONTANA
Filed for Record
1:10:15
AUG 3 1965

Jane M. Brester

Fee: $2.00
DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. **Bernard Riley**
   - Name of Appropriator
2. The beneficial use on which the claim is based: Stock Noxle
3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 12-15-31
4. The amount of groundwater claimed (in miner's inches or gallons per minute): 12-15-31
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: Not used
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Not available
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1949
8. The depth of water table: 26 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: 000,000
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: Not available

Signature of Owner: Bernard Riley
Date: Dec. 5, 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

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

Date of Appropriation of Groundwater

Owner, Address

Contractor (if any), Address

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 has
flow of H2 gal. per minute
Has spring box, which feeds to

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

Indicate point of appropriation

Signature of Owner

Date, Jan. 6, 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.
Filed for Record

DEC 6 1963

County Clerk

Fees $2.00
State of Montana
Administrator of Groundwater Code
Office of State Engineer

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

[Signature]
Date Jan. 10, 1962

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

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

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

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Nellie Cretainger & Kenneth Cretainger

(Owner)

Plevena

(Address)

(City)

(County)

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 spring

2. Date or approximate date of earliest beneficial use, and how continuous the use has been. It has been continuously used for this purpose since prior to 1917, although it is not known how many years before then.

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

10 gallons per minute

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

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

Natural spring - open flow

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

7. The depth of water table:

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. The estimated amount of groundwater withdrawn each year:

5,256,000 gallons per year

10. The kind of formations encountered in the drilling of each well if available:

None available

11. 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:

12. Signature of Owner:

Nellie Cretainger

Date: 12-10-1963

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.

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.
STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

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

1. Bernard Piley, of Reunion, Chester, Mont., 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): 6.7 GAC.

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 each 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 conveyance record.

Signature of Owner: Signature

Date: Dec. 6, 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.
112929

Filed for Record

DEC 6 1929

[Signature]

Fee $2.00
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Bernard Kelley, of Missoula, (Address) (Town)
   County of Carter State of Montana

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

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

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

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

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

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

1. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Drilled in 1956.

2. The depth of water table Artesian

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

4. The estimated amount of groundwater withdrawn each year 14.000,000,000,000

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

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

Signature of Owner
Date Dec. 6, 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)

Owner: Asking School District: Address: Ekal Ka, Mont.

Driller: Max R. Bandy Address: Biele Fouchen,

Date of Notice of appropriation of groundwater: 4-7-66

Type of well: Drilled Equipment used: Rotary

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>Stratum</th>
<th>Depth (ft)</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25</td>
<td>Sand &amp; Gravel</td>
</tr>
<tr>
<td>2</td>
<td>37</td>
<td>Light Gray Shale &amp; Streaks of Coal</td>
</tr>
<tr>
<td>3</td>
<td>44</td>
<td>Light Clay &amp; White Sand</td>
</tr>
<tr>
<td>4</td>
<td>50</td>
<td>Dark Brown Shale &amp; Streaks of Coal</td>
</tr>
<tr>
<td>5</td>
<td>55</td>
<td>Gray Sand &amp; White Sand</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

Shut-in Pressure for Flowing Well

Pumping Water Level

Discharge in gal. per min. of flowing well

How Tested

Length of Test

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

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

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, times 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

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

Date of Appropriation of Groundwater: 1930
Owner: Bernard Rippy
Address: Plummer
Contractor (if any): None
Address of Contractor: None
Date Started: 1947
Date Completed: 1949

Describe means of obtaining groundwater without a well, as by sub-irrigation and other natural processes. Include depth to water when applicable. Natural spring has flow of 45,921 gal per min. NES spring box, which feeds to tank, is used for stock water

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

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

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

1. Bernard Riley, of Plevna, Mont.
2. Stock Water
3. March 1st, Jan 1st
4. 10-1593. PET. MIN.
5. Not Used
6. Wind mill: PUMP NICK
7. 1951
8. 10 ft
9. Well is 185 ft deep, has
10. 800,000
11. Not Available
12. Not Available

State of Montana
Administrator of Groundwater Code
Office of State Engineer

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

Signature of Owner: Bernard Riley
Date: Dec 6, 1963

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

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. **BERNARD RILEY**, of **Pleya**
   - **County of** CARTET
   - **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:
   - **MAY 15, 1931, SET 1ST.**

4. The amount of groundwater claimed (in miner's inches or gallons per minute):
   - **15-20 GPH, 15-40 MPM**

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:
   - **ACRES USED**

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:
   - **WELL WAS DILLED IN 1952**

8. The depth of water table:
   - **75 F.T.**

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 IS 60 FT. DEEP, HAS 6" CASING**

10. The estimated amount of groundwater withdrawn each year:
    - **500,000 GALL.**

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 AVAILABLE**

   **Signature of Owner** **BERNARD RILEY**
   **Date** **DEC. 6, 1963**

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

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

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

1. H. L. Askin, of Ekalaka, 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 continuously the use has been.

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

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

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

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

8. The depth of water table.

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

10. The estimated amount of groundwater withdrawn each year.

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

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

Filed for Record

December 6, 1963

Signature of Owner

Date December 2, 1963

Three copies to be filed in the office of 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. **BERNARD KELLY**
   (Name of Appropriator)
   (Address)
   (Town)

   County of **Carter**
   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: **June 15, 1947**

   4. The amount of groundwater claimed (in inches or gallons per minute): **15-20 gal.**

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

   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(s), well(s), or other works for withdrawal of groundwater: **1947**

   8. The depth of water table: **34 ft.**

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: **WELL IS 180 FT. DEEP**

   10. The estimated amount of groundwater withdrawn each year: **1259000.921**

   11. The log of formations encountered in the drilling of each well if available: **N/A 12/6/62**

   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: **N/A 12/6/62**

   Signature of Owner: **Bernard R. Kelly**
   Date: **Dec. 6, 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.
<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>4</td>
<td>RILEY, BERNARD</td>
<td>GW-4</td>
<td>112925</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>RILEY, BERNARD</td>
<td>GW-4</td>
<td>112926</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>KUEHN, ARTHUR</td>
<td>WATERLOG</td>
<td>102005</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>HANLEY, JALK</td>
<td>WATERLOG</td>
<td>117485</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>RILEY, BERNARD</td>
<td>GW-4</td>
<td>112927</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>HANLEY, JAT</td>
<td>WATERLOG</td>
<td>107414</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>HANLEY, JAT</td>
<td>WATERLOG</td>
<td>104213</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>CRETZINGER, KENNETH</td>
<td>GW-3</td>
<td>109334</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>CRETZINGER, KENNETH</td>
<td>GW-2</td>
<td>123507</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>CRETZINGER, HARRY</td>
<td>GW-2</td>
<td>115887</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>CRETZINGER, KENNETH</td>
<td>GW-4</td>
<td>110991</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>CRETZINGER, KENNETH</td>
<td>GW-4</td>
<td>113685</td>
<td></td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

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

   County of **Carter**  
   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:  
   **July 15, 1952**

4. The amount of groundwater claimed (in miner's inches or gallons per minute):  
   **12 - 15 GML. 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.
   **No 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:  
   **Well was drilled in 1950 and completed for stockwater use only in 1961**

8. The depth of water table:  
   **80 FT.**

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:  
   **Well 25 ft. deep, Flow 12.16 GALLONS PER MIN., HAS 4" CASING**

10. The estimated amount of groundwater withdrawn each year:  
    **756,000 GALL.**

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 Available**

   **Signature of Owner: Bernard Riley**
   **Date: Dec 6, 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. **Bernard Riley**  
   (Name of Appropriator)  
   of **Reyna**  
   (Address)  
   (Town)  

County of:  

State of: **Montana**  

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

| SE 3/4 Sec. 5 T. NW R. 5E |

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **Mar. 1, 1951 - Feb. 1, 1952**

4. The amount of groundwater claimed (in miner's inches or gallons per minute): **20 G.P.M. 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 LSTED**

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

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

8. The depth of water table: **126 FT.**

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: **WELL IS 700 FT. DEEP, HAS 6" CASING, HAS DARK ARTESIAN WATER**

10. The estimated amount of groundwater withdrawn each year: **1,250,000 G.P.M.**

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

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 TAKEN**

**Signature of Owner:**  

**Date:** Dec. 5, 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.
<table>
<thead>
<tr>
<th>Owner</th>
<th>Arthur Ensmm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Baker, Montana</td>
</tr>
<tr>
<td>Driller</td>
<td>Owner</td>
</tr>
<tr>
<td>Date Started</td>
<td>Date Completed</td>
</tr>
<tr>
<td>Location</td>
<td>Sec 9 T 4 W R 46 S 1/4 sec</td>
</tr>
<tr>
<td>Type of well</td>
<td>Dug</td>
</tr>
<tr>
<td>Equipment</td>
<td>Hand Shovel</td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic, Municipal, Stock, Irrigation</td>
</tr>
<tr>
<td>Casing:</td>
<td>36 In. culvert to 40 Ft.</td>
</tr>
<tr>
<td>Perforated or</td>
<td>round, 40 in.</td>
</tr>
<tr>
<td>Screen</td>
<td>Ft. to Ft.</td>
</tr>
<tr>
<td>Static Water</td>
<td>7 feet, 18 ft. deep, feet</td>
</tr>
<tr>
<td>Shut-in Pressure, for flowing well:</td>
<td>lb. sq lb. on: (date)</td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>feet at gal. per min.</td>
</tr>
<tr>
<td>Remarks:</td>
<td>Gravel packing, cementing, packers, type of shut-off, depth of shut-off</td>
</tr>
</tbody>
</table>

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1–18</td>
<td>Gravel 10 feet &amp; good gravel 8 ft., with rock bottom</td>
</tr>
</tbody>
</table>
## WATER WELL LOG

**Owner:** Jack Hanley  
**Address:** Plevens, Montana

**Driller:** C. L. Askin  
**Address:** Miles City, Montana

**Date Started:** June 2, 1958  
**Date Completed:** June 10, 1958

**Location:** Sec. 17, T. 4 N., R. 58 W., 1/4 sec. SW 1/4

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Rotary</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Dug, driven, bored, or drilled)</td>
<td>(Churn drill, rotary, other)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water use:</td>
<td>Domestic [ ]</td>
<td>Municipal [ ]</td>
<td>Stock [x]</td>
</tr>
<tr>
<td>Industrial [ ]</td>
<td>Drainage [ ]</td>
<td>Other:</td>
<td></td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>Ft. to Ft.</td>
<td>Ft. to Ft.</td>
<td></td>
</tr>
<tr>
<td>Type of screen or perforations:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb. sq. in. on:</td>
<td>(date)</td>
<td></td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>Feet at</td>
<td>15 gal. per min.</td>
<td></td>
</tr>
<tr>
<td>How tested:</td>
<td>Bailed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of test:</td>
<td>1 Hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</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>0 - 8</td>
<td>Coal</td>
</tr>
<tr>
<td>8 - 18</td>
<td>Sandy Clay</td>
</tr>
<tr>
<td>18 - 22</td>
<td>Sand &amp; Gravel</td>
</tr>
<tr>
<td>22 - 80</td>
<td>Yellow clay</td>
</tr>
<tr>
<td>80 - 95</td>
<td>Sand</td>
</tr>
<tr>
<td>95 - 170</td>
<td>Blue Clay streaks of coal</td>
</tr>
<tr>
<td>170 - 235</td>
<td>Sand streaks of coal</td>
</tr>
<tr>
<td>235 - 310</td>
<td>Dry clay</td>
</tr>
<tr>
<td>310 - 398</td>
<td>Sand</td>
</tr>
<tr>
<td>398 -</td>
<td>Clay</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. Bernard Riley, of Pekin
   (Name of Appropriator) (Address) (Town)
   County of Carter, 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: Jan. 1st, 1957 - Feb. 1st, 1957

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 15 - 10... GALL

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: ACRE 45.00

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: WELL WAS DRILLED IN 1957, STOCK WATER USE ONLY.

8. The depth of water table: 75 FT.

9. So far as it may be available, the type, size, and depth of each well or the general specifications of any other works for the withdrawal of groundwater: WELL IS 150... FT DEEP, HAS DARK BREATHER WATER, 6... CASING

10. The estimated amount of groundwater withdrawn each year: 4250,000 GALL

11. The log of formations encountered in the drilling of each well if available: NOT 31/1/12/12

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: 41/2-1/12

Signature of Owner: Bernard Riley
Date: Dec. 6, 1963

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

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

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

Water Well Log

Owner: Pat Hanley  Address: Pluma, Montana
Driller: Geo. Askin  Address: Miles City, Montana
Date Started: Aug., 12, 1956  Date Completed: Aug., 22, 1956
Location: Sec. 18 T. 4 N. R. 58 E. 1 sec. SW1/4

<table>
<thead>
<tr>
<th>Type of Well</th>
<th>Equipment used</th>
<th>Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal</td>
<td>Rotary</td>
<td>(Churn, drill, rotary, other)</td>
</tr>
<tr>
<td>Domestic</td>
<td></td>
<td>(Aug, driven, bored, or drilled)</td>
</tr>
<tr>
<td>Stock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Irrigation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drainage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Casing: 0 ft. to 194 ft.  Type: Iron pipe  Size: 4 inch
Casing: 194 ft. to 365 ft.  Type: Iron pipe  Size: 2 inch
Casing: 365 ft. to ft.  Type: Size
Perforated or screened: Ft. 365 to ft. 365. Ft. to ft.
Type of screen or perforations: Holes cut with cutting torch
Static water level, for non-flowing well: 30 feet.
Shut-in pressure, for flowing well: 1 lb./sq. in. on:
Pumping water level: 50 feet at 5 gal. per min.
How tested: blind
Length of test: 2 hours at 7 gal. per minute
Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)
<table>
<thead>
<tr>
<th>Depth, Feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>35</td>
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<td>35</td>
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<td>164</td>
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<td>194</td>
<td>204</td>
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<tr>
<td>204</td>
<td>305</td>
</tr>
<tr>
<td>305</td>
<td>365</td>
</tr>
</tbody>
</table>
**Water Well Log**

**Owner:** Pat Hanley  
**Address:** Elyria, Montana

**Driller:** Henry Bryant  
**Address:** Elyria, Montana

**Date Started:** Nov. 1, 1954  
**Date Completed:** Nov. 5, 1954

**Location:** Sec. 21 T. 4 N. R. 58 E. 1/4 sec. 8954

---

**Type of well:** Drilled

**Equipment used:** Cable tool

**Casing:** 0 ft. to 138 ft.  
**Type:** Iron pipe  
**Size:** 6 inch

**Casing:** 138 ft. to 264 ft.  
**Type:** Size

**Casing:** 264 ft. to 390 ft.  
**Type:** Size

**Forfomented or Screened:** Ft. 118 to Ft. 138  
**Ft. to Ft.**

**Type of screen or perforations**

**Static water level, for non-flowing well:** 70 feet

**Shut-in pressure, for flowing well:** lb./sq. in. on: [Insert value]

**Purping water level:** 75 feet at 5 gal. per min.

**How tested:** Tailed

**Length of test:** 1 Hour, at 8 gal per minute

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

<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>2</td>
<td></td>
<td>Top soil</td>
</tr>
<tr>
<td>2</td>
<td>10</td>
<td></td>
<td>Yellow soil</td>
</tr>
<tr>
<td>10</td>
<td>55</td>
<td></td>
<td>Gray shale</td>
</tr>
<tr>
<td>55</td>
<td>62</td>
<td></td>
<td>Coal</td>
</tr>
<tr>
<td>62</td>
<td>75</td>
<td></td>
<td>Light shale</td>
</tr>
<tr>
<td>75</td>
<td>105</td>
<td></td>
<td>Sandy shale</td>
</tr>
<tr>
<td>105</td>
<td>118</td>
<td></td>
<td>Blue shale</td>
</tr>
<tr>
<td>118</td>
<td>138</td>
<td></td>
<td>Water sand</td>
</tr>
</tbody>
</table>
# Declaration of Vested Groundwater Rights

**State of Montana**

**Administrator of Groundwater Code**

**Office of State Engineer**

(Under Chapter 237, Montana Session Laws, 1961)

---

**1. Kenneth Cratsinger**

(Name of Appropriator)  

- **Flayo**

(Address)  

- **Carter**

(State of)  

- **Montana**

County of  

- **Carter**

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

<table>
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- **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**  
  - **October, 1948**

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

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

- **6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal**  
  - **Pumped by 2" cylinder**

- **7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater**  
  - **Commenced and completed October, 1948**

- **8. The depth of water table**  
  - **Approximately 70'**

- **9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater**  
  - **4" casing, depth 90 feet, pump powered by windmill**

- **10. The estimated amount of groundwater withdrawn each year**  
  - **780,000 gal.**

- **11. The log of formations encountered in the drilling of each well if available**  
  - **55' clay; 2' sand; 55' clay; 20' water 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**

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**Signature of Owner:**  

**Kenneth Cratsinger**  

**Date:**  

Jan 10, 1962

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

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

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

**Notice of Completion of Groundwater Appropriation by Means of Well**
**DEVELOPED AFTER JANUARY 1, 1982**

(Under Chapter 237 Montana Session Laws, 1961, as amended)

<table>
<thead>
<tr>
<th>Date of Notice of appropriation of groundwater</th>
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<td>Date well started</td>
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<td>Date completed</td>
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</table>

**Type of well** Drilled

**Equipment used** Rotary

**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.

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<th>Size of Drilled Hole</th>
<th>Depth (Feet)</th>
<th>Flow Rate (GPM)</th>
<th>Discharge (GPM)</th>
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</table>

**Static Water Level for non-flowing well**

2.3 feet

**Shut-in Pressure for Flowing Well**

100 feet

**Pumping Water Level** 100 feet at 2.3 gal. per minute.

**Discharge** in gal. per min. of flowing well

**How Tested**: PUMPED

**Length of Test**: 1 hour

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

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

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

---

Show exact depth of bottom.

540 feet

**Driller's License Number**

Malcolm B. Candy

Driller's Signature
CARTER COUNTY
Ekalaka, Montana
Filed for Record
MAY 27, 1968

121507

F80

May 27, 68

S527.00
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Owner: Harry Clark
Address: Choteau

Driller: Perry Bixent
Address: Choteau

Date of Notice of Appropriation of Groundwater: July 20

Date Well Started: July 20
Date Completed: July 20

Type of Well: Drilled
Equipment Used: Churn, drill, rotary or other

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.

Static Water Level for non-flowing Well: 5' 11" feet.
Shut-in Pressure for Flowing Well: 20 ft. feet at 6 gal. per minute.
Pumping Water Level: 20 ft. feet at 6 gal. per minute.
Discharge in gal. per min. of flowing well: 110

How Tested: SRC
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 pertinent information, including number of acres irrigated, if used for irrigation)

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

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

1. Kenneth Cratsinger
   (Name of Appropriator) of
   Flavna
   (Address; Town)

   County of
   State of

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   1945 and continuous
   use since that time

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   June, 1945

8. The depth of water table
   460 feet deep, water about 80 feet from ground level

9. So far as it may be available, the type, size and depth of each well or other works for the withdrawal of groundwater
   460 feet deep, 4 inch casing, 14" bucket, 20" flush cap cylinder

10. The estimated amount of groundwater withdrawn each year
   120,000 gallon

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

Signature of Owner

Date, July 17, 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.
Filed for Record
at 2:30 clock P.M.

Aug 25 1962
May P. Ives
County Clerk

$2.00 Deposted
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

ROLAND E. GRETSINGER, at WILLARD
(Address) (Town)

County of Missoula, State of Montana

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

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

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

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

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

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

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

8. The depth of water table...

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

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

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

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

Signature of Owner: Roland E. Greetsinger
Date: Dec. 17, 1963

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

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

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