**WATER WELL LOG**

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

<table>
<thead>
<tr>
<th>Casing:</th>
<th>0 ft. to 590 ft.</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>4 inch 11 pound per ft.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>480 ft. to 528 ft.</th>
<th>565 ft. to 590 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of screen or perforations</td>
<td>Drilled &amp; ind. holes</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well:</th>
<th>105 feet</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Shut-in pressure, for flowing well:</th>
<th>105 lb./sq. in. on:</th>
<th>(date)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Pumping water level:</th>
<th>205 feet at 10 gal. per min.</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Length of test:</th>
<th>3 hours</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
<th>packers above perforations to make shut off</th>
</tr>
</thead>
</table>

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>12</td>
<td></td>
<td>brown clay</td>
</tr>
<tr>
<td>12</td>
<td>18</td>
<td></td>
<td>gravel and brown clay</td>
</tr>
<tr>
<td>18</td>
<td>80</td>
<td></td>
<td>blue clay</td>
</tr>
<tr>
<td>80</td>
<td>283</td>
<td></td>
<td>dark shale (bear paw shale)</td>
</tr>
<tr>
<td>283</td>
<td>287</td>
<td></td>
<td>rock layer</td>
</tr>
<tr>
<td>287</td>
<td>290</td>
<td></td>
<td>sandstone</td>
</tr>
<tr>
<td>290</td>
<td>326</td>
<td></td>
<td>bear paw shale</td>
</tr>
<tr>
<td>326</td>
<td>327</td>
<td></td>
<td>rock layer</td>
</tr>
<tr>
<td>327</td>
<td>420</td>
<td></td>
<td>bear paw shale</td>
</tr>
<tr>
<td>420</td>
<td>430</td>
<td></td>
<td>shale and sandstone</td>
</tr>
<tr>
<td>430</td>
<td>435</td>
<td></td>
<td>sandstone</td>
</tr>
<tr>
<td>435</td>
<td>470</td>
<td></td>
<td>sandy grey shale</td>
</tr>
<tr>
<td>470</td>
<td>474</td>
<td></td>
<td>brown shale</td>
</tr>
<tr>
<td>474</td>
<td>480</td>
<td></td>
<td>grey shale</td>
</tr>
<tr>
<td>480</td>
<td>528</td>
<td></td>
<td>sandstone</td>
</tr>
<tr>
<td>528</td>
<td>565</td>
<td></td>
<td>grey shale</td>
</tr>
<tr>
<td>565</td>
<td>573</td>
<td></td>
<td>sandstone</td>
</tr>
<tr>
<td>573</td>
<td>577</td>
<td></td>
<td>rock layer</td>
</tr>
<tr>
<td>577</td>
<td>590</td>
<td></td>
<td>sandstone with some shale layers</td>
</tr>
</tbody>
</table>
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

## Applicant Information

- **Name of Appropriator**: [Name]
- **Address**: [Address]
- **Town**: [Town]

## Groundwater Appropriation

- **County of File**: [County]

I, [Name], 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>S</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- **Point of Appropriation**: NW 1/4 SE 30, T. 16 N. R. 32

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

## Details of Appropriation

1. **Type of Use**: [Stock Water for Irrigation]
2. **The beneficial use on which the claim is based**: [Stock Water for Irrigation]
3. **Date or approximate date of earliest beneficial use; and how continuous the use has been**: [Sept. 1945; daily]
4. **The amount of groundwater claimed (in inches or gallons per minute) approximately 2 gallons**
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**: [Irrigation]
6. **The means of withdrawing such water from the ground and the location of each well or other means of withdrawal**: [Well, new building site]
7. **The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater**: [Sept. 1945]
8. **The depth of water table**: [About 54.5 ft]
9. **So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater**: [Drilled, 40 ft deep]
10. **The estimated amount of groundwater withdrawn each year**: [1,000 gallons]
11. **The log of formations encountered in the drilling of each well if available**: [Surface to 32 ft, gravel; 32 ft, 46.5 ft, Lower Pawnee Shale; 65-65 ft, Pawnee Formation]
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**: [Details]

---

**Signature of Owner**: [Signature]

**Date**: [Date]

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Mie. 15951
236979

Phillips Co.

Filed 12-31-63.
at 9:14 8 A.M.

Dec 3, 60

R.V. Maloney
Clerk & Recorder.
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 ground water

Date well started: [Date]
Date Completed: [Date]

Type of well: Drilled
Equipment used: Churn
(dug, driven, bored or drilled)

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.

Static Water Level for non-flowing well [ ] feet.
Shut-in Pressure for flowing well [ ] feet.
Pumping Water Level [ ] feet at [ ] gal. per minute.
Discharge in gal. per min. of flowing well

How Tested: [ ]

Length of Test: [ ] hr.
Remarks: [ ]

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 School of Mines and quadruplicate for 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>2</td>
<td>B. H. Clausen</td>
<td>G-02</td>
<td>23406</td>
<td></td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

Owner: N.H. Clauses  
Address: Content, Montana

Driller: R.C. Simpson  
Address: Malta, Montana

Date of Notice of Appropriation of Groundwater: 

Date Well Started: Jan. 15, 1962  
Date Completed: May 1, 1962

Type of Well:  
Equipment Used:  
(dug, driven, bored or drilled)

Water Use: Domestic □  
Municipal □  
Stock □  
Irrigation □

Industrial □  
Drainage □  
Other □

"63 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.

---

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 School of Mines and quadruplicate for the Appropriator.
## Groundwater Index

**County:** Phillips  
**Twp.:** 250  
**Rge.:** 32E

<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>13</td>
<td>Lewis J. Martin, Jr.</td>
<td>G.W4</td>
<td>232647</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Lewis J. Martin, Jr.</td>
<td>G.W2</td>
<td>232525</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Lewis J. Martin, Jr.</td>
<td>G.W4</td>
<td>232586</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Lewis J. Martin, Jr.</td>
<td>G.W2</td>
<td>232586</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)

STATE ENGINEER

1. LEWIS J. MARTIN, JR.,
(Name of Appropriator)
of Box 125 Malta, Montana

County of: Phillips
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: *uerwater...domestic, irrigation*

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: *August 1959*

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 25 ft. per Min. *well tested flows freely; claim all*

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 as yet, but may soon on bottom lands along Sugar Creek in Sec. 31, 35, 47 T. 22 N. R. 22 W.*

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: *Artesian well flowing freely;*

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: *August 1 to August 25*

8. The depth of water table: *400 feet to pumping water level*

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: *6½ holes drilled. Depth of bottom, 175 feet*

10. The estimated amount of groundwater withdrawn each year: *Artesian well, flows freely*

11. The log of formations encountered in the drilling of each well if available: *See new form Notice of completion of Groundwater Appropriation by Lewis J. Martin*

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: Lewis J. Martin
Date: September 29, 1962

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

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

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

Filed for Record this 21st day of Sept., A.D. 1925, at 12 o'clock P.M., and duly recorded in book

Filed for Record this 21st day of Sept., A.D. 1925, at 12 o'clock P.M., and duly recorded in book

By

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

Owner: LEWIS J. MARTIN, JR. Address: MALTA, MONT.

Driller: Simpson-Drilling Co. Address: MALTA, MONT.

Date of Notice of appropriation of ground water: August 24

Date well started: August 3

Date Completed: August 24

Type of well: Drilled

Equipment used: Cable (dug, driven, bored or drilled)

Water use: Domestic

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, cte. 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>Strata Met With</th>
<th>Top of Ground</th>
<th>Character and Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>69</td>
<td></td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>grey shale</td>
<td></td>
</tr>
<tr>
<td>399</td>
<td>grey shale</td>
<td></td>
</tr>
<tr>
<td>392</td>
<td>hard shell</td>
<td></td>
</tr>
<tr>
<td>392</td>
<td>hard shell</td>
<td></td>
</tr>
<tr>
<td>392</td>
<td>hard shell</td>
<td></td>
</tr>
<tr>
<td>401</td>
<td>grey shale</td>
<td></td>
</tr>
<tr>
<td>410</td>
<td>grey shale</td>
<td></td>
</tr>
<tr>
<td>439</td>
<td>light grey shale</td>
<td></td>
</tr>
<tr>
<td>459</td>
<td>grey sandstone</td>
<td></td>
</tr>
<tr>
<td>480</td>
<td>grey sandstone</td>
<td></td>
</tr>
<tr>
<td>512</td>
<td>light grey shale</td>
<td></td>
</tr>
<tr>
<td>532</td>
<td>grey sandy shale</td>
<td></td>
</tr>
<tr>
<td>537</td>
<td>hard shell</td>
<td></td>
</tr>
<tr>
<td>537</td>
<td>sandstone (dry)</td>
<td></td>
</tr>
<tr>
<td>575</td>
<td>grey shale</td>
<td></td>
</tr>
<tr>
<td>650</td>
<td>grey shale small layers</td>
<td></td>
</tr>
<tr>
<td>688</td>
<td>grey shale</td>
<td></td>
</tr>
<tr>
<td>692</td>
<td>hard shell</td>
<td></td>
</tr>
<tr>
<td>714</td>
<td>sandstone</td>
<td></td>
</tr>
<tr>
<td>725</td>
<td>grey shale</td>
<td></td>
</tr>
</tbody>
</table>

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

Static Water Level for non-flowing well

Shut-in Pressure for Flowing Well

Pumping Water Level

Discharge in gal. per min. of flowing well

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

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

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

1. LEWIS J. MARTIN, JR. (Name of Appropriator)
   (Address)
   County of PHILLIPS
   State of MONTANA
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) is an artesian well flowing at 5 gpm.
   all is claimed.

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:

Drilled using shorn, artesian well flows up freely.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: August 26 to August 28.

8. The depth of water table: Depth of bottom is 50 feet.

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

See Attached Form Notice of Completion of Groundwater Appropriation by Means of Well.

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

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

See Form Notice of Completion of Groundwater Appropriation by Means of Well.

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: Lewis J. Martin
Date: September 25, 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 Phillips;  
Filed for record this 21st day  
of Sept., A.D. 1962 at 11:30  
o'clock A.M., and duly recorded in book  
Page of  
Recorder  
By  
Fee  
Return.
Notice of Completion of Groundwater Appropriation by Means of Well

Owner: LEWIS J. MARTIN, JR.  Address: MALTA, MONT.

Driller: SIMPSON DRILLING CO  Address: MALTA, MONT.

Date of Notice of appropriation of ground water: August 24

Date well started: August 24  Date Completed: August 28

Type of well drilled: Churn

Equipment used: Drilled

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>Weight of casing (lb)</th>
<th>Depth (Feet)</th>
<th>PERIODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>4</td>
<td>0</td>
<td>8'</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: Bailie

Length of Test

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)

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 School of Mines and quadruplicate for Approprietor.
<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>26</td>
<td>Keating Bros.</td>
<td>G-12</td>
<td>72010723</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Joseph Kaprovitch</td>
<td>G-12</td>
<td>2361280</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Rick Y. Thornton</td>
<td>G-12</td>
<td>2321214</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>V. C. Mitchell</td>
<td>G-12</td>
<td>2321209</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>V. C. Mitchell</td>
<td>1939</td>
<td>223005</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Dennis Holzog</td>
<td>G-12</td>
<td>2321241</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Land, George N.</td>
<td>H</td>
<td>236016</td>
<td></td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: KRASTER DRILL
Address: LANKFORD, MONTANA
Driller: SIMPSON DRILLING CO
Address: MALTA, MONTANA

Date of Notice of appropriation of ground water: April 26, 1965
Date well started: April 26, 1965
Date completed: April 27, 1965

Type of well: DRILLED
Equipment used: CHERN
(dug, driven, bored or churn, drill, rotary or drilled)

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.

Static Water Level for non-flowing well: 68 feet
Shut-in Pressure for Flowing Well
Pumping Water Level: 90 feet
at: 20 gal. per minute.
Discharge in gal. per min. of flowing well

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

Show exact depth of bottom.

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 School of Mines and quadruplicate for Appropriator.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1919

Owner: Knut Krupnick
Address: Landokey, Montana

Contractor (if any):
Address of Contractor:

Date Started: 1919
Date Completed: 1919

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes", include depth to water when applicable: natural flowing 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: 1 gpm, estimated

Signature of Owner: Knut Krupnick
Date: December 27th, 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 School of Mines and Quadruplicate for the Appropriator.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Erick L. Thorsen  of Landusky
   (Name of Appropriator) (Address) (Town)

   County of Phillips  State of Montana

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

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

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

   4. The amount of groundwater claimed (in miner's inches or gallons per minute). 10 gal. per min. both

   5. If used for irrigation, give the acreage and description of the land 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  Erick L. Thorsen  Date  Dec. 30, 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.
Plunge Co.
Filed 12-31-65.
at 11:54 A.M.
Fee $2.00
R.V. Maloney
Clerk & Recorder.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODES
OFFICE OF STATE ENGINEER

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

1. V. C. Mitchell of Landusky
   County of Phillips State of Montana

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

2. The beneficial use on which the claim is based: Domestic, stock and irrigate garden

3. Date or approximate date of earliest beneficial use, and how continuous the use has been: Feb. 26, 1959

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 25 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:
   Groundwater garden 1/8 acre

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: Feb. 25, 1959--Feb. 26, 1959

8. The depth of water table: 35 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Drilled, 4½" steel casing, 61 ft. deep

10. The estimated amount of groundwater withdrawn each year: 100,000 gallons and 1/8 acre foot

11. The log of formations encountered in the drilling of each well if available:
   0-7 Broken stone clay 37-45 dark grey clay
   7-15 sandstone (Brown) 45-47 sandstone coal
   15-27 Brown clay 47-60 sandstone water 25 8. p.m.

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: /s/ V. C. Mitchell
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.
Misc. 16051
2370.79.

Phillips Co.

Filed 12-31-63,
at 11:22 A.M.

Fee $2.00

R. V. Moloney

Clerk of Recorder.
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<th>Drilled</th>
<th>Equipment used</th>
<th>Churn-drill</th>
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<td>Municipal</td>
<td>Stock</td>
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<td>Casing</td>
<td>ft. to ft.</td>
<td>ft. to ft.</td>
<td>ft. to ft.</td>
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<td>Shut-in pressure, for flowing well</td>
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<td>Pumping water level</td>
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<td>How tested</td>
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<td>Length of test</td>
<td>hour</td>
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<tr>
<td>Remarks</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
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Packers @ 46 ft.
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</table>

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

THOMAS KOJCZAK
(Name of Appropriator)

LANDUSKY
(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: DOMESTIC

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 40 years
   (1922 to 1960)

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

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

6. The means of withdrawing such water from the ground and the location of each well, or other means of withdrawal:
   (water table elevation) 34

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

8. The depth of water table: 24

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:
   (1 well) 157 and 5 deep, cement-bonded

10. The estimated amount of groundwater withdrawn each year: 2,102,400 gal.

11. The rock formations encountered in the drilling of each well if available:
   (limerock, clay at bottom, expung

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: THOMAS KOJCZAK
Date: AUGUST 27, 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 Flathead  

Filed for Record this
day of Aug., A.D. 1962, at 11:35
of clock A.M., and duly Recorded in book

Filed of

County Recorder
By: Roseland McCornack

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

1. George N. Lund
   (Name of Appropnator)
   of
   (Address)

   County of Sheridan
   State of Montana

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

2. The beneficial use on which the claim is based - Domestic and stockwater from 3 springs

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1915 = continuous since

4. The amount of groundwater claimed (in miner's inches or gallons per minute) varies seasonally (all that flows claimed)

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

   Home

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

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

   Flowing Springs

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater - approximately 1915

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 December 27th, 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 Appropnator.
# Groundwater Index

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Approporator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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</table>
STATE OF MONTANA )

County of Phillips )

ARTHUR PHILLIPS, being first duly sworn upon oath, deposes and says:

That he is the clerk of School District No. 7, Phillips County, Montana, and has been such clerk for a number of years.

That on or about the 23rd day of June, 1958, he did file on behalf of said School District No. 7, a Notice of Appropriation of Underground Water in the office of the Clerk and Recorder of Phillips County, Montana, wherein water was appropriated for a well located as described therein on the SW 1/4 of Section 22, Township 25 North, Range 24 E.M.M.

That the description of the location of said well was incorrect and that the well was actually located on the NW 1/4 SE 1/4 of Section 27, Township 25 North, Range 24 E.M.M. and that said description has since been surveyed so that the well is presently located in Lot 13 of Block 3 of the proposed Townsite of Landusky, Phillips County, Montana.

The affiant makes this Affidavit for the purpose of correcting the description of said Notice of Appropriation.

Said Notice of Appropriation was filed as Miscellaneous No. 14782, records of Phillips County, Montana.

Arthur Phillips

SUBSCRIBED AND SWORN to before me this 10th day of February, 1967.

Notary Public for the State of Montana
Residing at Malta, Montana
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Northern Continental, Inc.  
   (Name of Appropriator)  
   (Address)  
   (Town)

   County of Phillips  
   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: Drill water for pastures, farm crops, and livestock.

   3. Date or approximate date of earliest beneficial use: July 1960.

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 1,000 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. Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Commenced July 1960, and not completed to date.

   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. 12,000,000 gals per 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: Northern Continental, Inc.
   Agent: A. A. Franklin
   Date: Oct. 2, 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. Don Kraftenberg
   (Name of Appropriator)
   (Address)
   County of Fergus
   State of Montana
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.
   Est. 1972

4. The amount of groundwater claimed (in miner’s inches or gallons per minute).
   111

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
   Est. 1972

8. The depth of water table.
   Not known

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.
   Pump = 200 feet, estimate

10. The estimated amount of groundwater withdrawn each year.
    Not Known

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.
    None

Signature of Owner

Date: March 1, 1971

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)

C. M. Cox

(Name of Appropriator)

Box 3

(Addres)

Landusky

(Town)

County of Phillips

State of Montana

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

2. The beneficial use on which the claim is based. Household, yard and Stock

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 16 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

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. Nov 9, 1959 - Nov 11, 1959

8. The depth of water table 85 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Drilled 6 in. steel casing 110 ft. deep

10. The estimated amount of groundwater withdrawn each year. 365,000 gal plus 1 acre feet

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

0-37 Broken Rock Clay

37-40 Porphyry 40-85 gravel 85-61 shale (maroon gray) 61-79 sandstone

61-79 shale (Charcoal brown maroon) 84-110 Sandstone 16

g.p.m.

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 /s/ C. M. Cox

Date Dec 31, 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.
Filed 12-31-63
at 11:44 A.M.
Fee $2.00.
R.V. Maloney
Clerk Recorder.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Ted S. Duvall, of Landusky
   (Name of Appropriator) (Address) (Town)
   County of Phillips State of Montana

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

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

3. Date or approximate date of earliest beneficial use, and how continuous the use has been: Sept. 1960

4. The amount of groundwater claimed: 50 gal per min. test

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: Hand pump

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

8. The depth of water table: 23 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Drilled 3 in. steel casing, 55 ft. deep

10. The estimated amount of groundwater withdrawn each year: 365,000 gallons

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

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

Signature of Owner/s/ Ted S. Duvall
Date Dec 30, 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.
Misc. 16091
237119

Phillips Co.

Filed 12-31-63.
at 11:59 A.M.

Fee $2.00.

R.V. Maloney
Clerk & Recorder.
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: [Address]
Driller: [Address]  [Phone]

Date of Notice of Appropriation & Groundwater: [Date]
Date well started: [Date]  Date Completed: [Date]

Type of well: [Type of well]  Equipment Used: [Equipment]
(dune, driven, bored or drilled)

Water Use: [Type of 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: [Height]
Shut-in Pressure for Flowing Well: [Pressure]
Pumping Water Level: [Height]  Pumping rate: [Rate]
Discharge in gal. per min. of flowing well: [Discharge]
How Tested: [Method of testing]  Length of Test: [Length]
Remarks: [Remarks]

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 Appropriator.

444 45
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1967)

**Owner:** J. C. Glenn Rolka<br>**Address:** Lantry, Montana

**Driller:** Simpson Drilling Co.<br>**Address:** Miles, Montana

**Date of Notice of appropriation of ground water:** 5/25/67

**Date well started:** 5/25/67

**Type of well:** Drilled

**Equipment used:** cable tool

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

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

<table>
<thead>
<tr>
<th>Size of Well (Hrs.)</th>
<th>Size of Well (Ft.)</th>
<th>From (Ft.)</th>
<th>To (Ft.)</th>
<th>PERFORATIONS</th>
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<tr>
<td>15/8&quot;</td>
<td>11/16&quot;</td>
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<td>21</td>
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</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:** 2 hours

**Length of Test:** 2 hours

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

**Show exact depth of bottom.**

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

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

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

**Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for Appropriator.**
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Helen Kalysak
Address: Lander

Driller: Mecum's Drilling
Address: Lewistown

Date of Notice of appropriation of groundwater: Not Applicable (NA)
Date well started: August 30, 1967
Date completed: September 30, 1967

Type of well: Drilled
Equipment used: (Chisell, Driven, bored or drilled)

Water use: Domestic [X] 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.

Show exact depth of bottom.

Static Water Level for non-flowing well
50 feet.

Shut-in Pressure for Flowing Well: NA

Pumping Water Level: 140 feet
at: 50 gal. per minute.

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

How Tested: Driller's Test

Length of Test: 3 hours.

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

Owner's signature: [Signature]

Driller's License Number: [Number]

Driller's Signature: [Signature]

43, 475
State of Montana,
County of Phillips, 

Filed for record this 7 day of July 1910, A.D. 1910 at 10:10 o'clock A.M. and duly recorded in book
by
Recorder

By:  

Fea:  2.00

Return:  

246595
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

OWNER: David E. Turner
Address: Mount, N.M. 1/2
Driller: J. M. Conner
Address: Great Falls

Date of Notice of Appropriation of Groundwater
Well started: Aug. 15, 1961
Date Complete: __________

Type of well: ______________
Equipment Used: ______________
Rotary (drill, piston, 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 the depth at which water is encountered, thickness and character of water-bearing strata and depths to which water rises in the well.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Cement</th>
<th>Fracture</th>
<th>Take</th>
<th>PERMANENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>Maximum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>________________</td>
<td>________________</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Wells: 50 feet
Shut-In Pressure for flowing Wells: __________
Pumping Water Level: __________ feet at __________ gal. per minute.
Discharge in gal. per min. of flowing well: __________
Row Tested: __________
Length of Test: __________

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

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 appropriator.

4.2.366
**WATER WELL LOG**

<table>
<thead>
<tr>
<th>Owner</th>
<th>School Dist 7</th>
<th>Address</th>
<th>La ny n ski</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>E.C. Anderson</td>
<td>Address</td>
<td>Maita</td>
</tr>
<tr>
<td>Date Started</td>
<td>5-9-58</td>
<td>Date Completed</td>
<td>5-10-58</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 22</td>
<td>T. 25</td>
<td>R. 24 1/4 sec. SW</td>
</tr>
</tbody>
</table>

Type of well: Drilled

Equipment used: Churn drill

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

Casing: [ ] ft. to ft. Type Size

Perforated or Screened: Ft. 34 ft. 6 ft. to ft. 34 ft. to ft.

Type of screen or perforations: Holes Drilled in Pipe

Static Water level, for non-flowing well: 27 ft.

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

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

How tested: Boiler 1 hr. — Pump 24 hrs

Length of test: 

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

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>20  Broken Bedding + Gravel, clay</td>
</tr>
<tr>
<td>20</td>
<td>28  clay</td>
</tr>
<tr>
<td>38</td>
<td>114 water</td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Charles Kendall</th>
<th>Address</th>
<th>Landusky</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>Simpson Drilling Company</td>
<td>Address</td>
<td>Malta</td>
</tr>
<tr>
<td>Date Started</td>
<td>9 Nov. 1959</td>
<td>Date Completed</td>
<td>11 Nov. 1959</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 27, T. 25, R. 24, sec. NE 1/4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Churn drill</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Casing</th>
<th>ft. to</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>61</td>
<td>Steel</td>
<td>6”</td>
</tr>
<tr>
<td>47</td>
<td>110</td>
<td>Steel</td>
<td>4&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Perforated or Screened</th>
<th>Ft. to Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>85 to 110</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of screen or perforations in pipe</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well</th>
<th>feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Pumping water level</th>
<th>feet at</th>
<th>gal. per min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Length of test</th>
<th>½ hour</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
</tr>
</thead>
</table>

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>37</td>
<td></td>
<td>Broken rocks &amp; clay</td>
</tr>
<tr>
<td>37</td>
<td>40</td>
<td></td>
<td>Porphyry</td>
</tr>
<tr>
<td>40</td>
<td>45</td>
<td></td>
<td>Gravel</td>
</tr>
<tr>
<td>45</td>
<td>61</td>
<td></td>
<td>Shale (Maroon Gray)</td>
</tr>
<tr>
<td>61</td>
<td>79</td>
<td></td>
<td>Sandstone Gray Shale</td>
</tr>
<tr>
<td>79</td>
<td>84</td>
<td></td>
<td>Shale (Chap. Brown &amp; Maroon)</td>
</tr>
<tr>
<td>84</td>
<td>110</td>
<td></td>
<td>Sandstone 16 g.p.m. 110 ft.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Static 30 ft.</td>
</tr>
</tbody>
</table>
**WATER WELL LOG**

**Owner:** Gerald Kolesak  
**Address:** Landusky

**Driller:** E. C. Gendron  
**Address:** Malta

**Date Started:** May 3, 1958  
**Date Completed:** May 4, 1958

**Location:** Sec. 27  
**T. 25**  
**R. 24**  
**34 sec SW**

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

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

<table>
<thead>
<tr>
<th>Casing</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>Steel</td>
<td>5-5/8</td>
</tr>
</tbody>
</table>

**Perforated or Screened:** Feet  

**Type of screen or perforations:** Holes drilled in pipe

**Static Water level, for non-flowing well:** 36 feet

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

**Pumping water level:** 16 feet at 16 gal. per min.

**How tested:** Bailer

**Length of test:** 1 hour

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

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>43</td>
</tr>
<tr>
<td>43</td>
<td>50</td>
</tr>
<tr>
<td>50</td>
<td>55</td>
</tr>
<tr>
<td>55</td>
<td>60</td>
</tr>
</tbody>
</table>
# WATER WELL LOG

**Owner**: Green - Duncan  
**Address**: Landusky, Montana

**Driller**: E. G. Gendron  
**Address**: Malta, Montana

**Date Started**: May 2, 1958  
**Date Completed**: May 3, 1958

**Green-Duncan Bar in Village of Landusky**

**Location**: Sec. 22  
**T.** 25  
**R.** 24  
**Sec.** 24

### Type of well
Drilled

### Equipment used
Churn Drill

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

### Casing:
- 0 ft. to 46 ft.  
  **Type**: Steel  
  **Size**: 5-5/8

### Perforated or Screened:
- From ft. to ft.  
  **Type**:  
  **Size**:  

### Static Water level, for non-flowing well:

### Shut-in pressure, for flowing well:

### Pumping water level:

### How tested:
Bailer

### Length of test:
8 hour

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

---

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>40</td>
<td>Broken Sandstone clay</td>
</tr>
<tr>
<td></td>
<td>40</td>
<td>50</td>
<td>Broken Sandstone water</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td>55</td>
<td>Gray Shale</td>
</tr>
</tbody>
</table>
### Groundwater Index

**County: Philips**
**Twp.: 25 N**
**Rge.: 25 E**

<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>16</td>
<td>Puey Holzhey</td>
<td>Cw2</td>
<td>2475746</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Ray Holzhey</td>
<td>Cw4</td>
<td>256776</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Ray Holzhey</td>
<td>Cw1</td>
<td>2448623</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Ray Holzhey</td>
<td>Cw4</td>
<td>237020</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Dick Kabel</td>
<td>Cw2</td>
<td>256672</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Dick Kabel</td>
<td>Cw4</td>
<td>246293</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Jguy 10 cattle Co.</td>
<td>Cw3</td>
<td>236721</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>A. M. Phillips</td>
<td>Cw2</td>
<td>2643278</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Jguy 10 cattle Co.</td>
<td>Cw3</td>
<td>2367273</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>A. M. Phillips</td>
<td>Cw4</td>
<td>236998</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Ray Holzhey</td>
<td>Cw4</td>
<td>236992</td>
<td></td>
</tr>
</tbody>
</table>
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>Date of Notice of Appropriation of Groundwater</th>
<th>Date well started</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/12/67</td>
<td>1/14/67</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment Used</th>
<th>Water Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled</td>
<td>Cable Tool</td>
<td>Domestic</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Drilling</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>19.2 x 9.5</td>
<td>7&quot;</td>
<td>100&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 45’ feet.
Shut-in Pressure for Flowing Well: 10’ feet at 7’ gal. per minute.
Pumping Water Level: 10’ feet at 7’ gal. per minute of flowing well.
How Tested: Drilling
Length of Test: 8’
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).

![Diagram]

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; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.

44/4/4