## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Richard Pankratz
   (Name of Appropriator)
   County of Phillips
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

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

3. Date or approximate date of earliest beneficial use: about 1920

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: about 1920

8. The depth of water table: unknown

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

10. The estimated amount of groundwater withdrawn each year: 900,000 gallons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/ Richard Pankratz
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.
Miae 16029
237067

Phillippi Co.
Filed 12-31-63.
at 11:10 A.M.
Fee $2.00

R. J. Maloney
Clerk & Recorder.
DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

AUG 28, 1963

STATE ENGINEER

1. MONS VERSTH
   (Name of Appropriator)
   of
   (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 watering purposes.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 7-1-48.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 50 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: pumps.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Began July 1, 1948, finished July 10, 1948.

8. The depth of water table: 140-180.

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: 792 feet deep.

10. The estimated amount of groundwater withdrawn each year: 

11. The log of formations encountered in the drilling of each well if available: clay, rocks, brown, hard layers, sandy shale, sandstone, rock, blue shale, shaley sandstone, sand, shale, sandstone, sandy clay, alluvial deposits, sandstone, sand, shale, rock, sandstone, shale, sandstone & shale layers and mostly sandstone.

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: August 23, 1963

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

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

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

Filed for Record this 8.2 day
of Aug., A. D. 1925,
and duly Recorded in book

of

by

Fee, #8.00

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

1. Richard Pankratz
   (Name of Appropriator)

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: about 1920. continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 15 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: windmill & pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: about 1920

8. The depth of water table: unknown

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

10. The estimated amount of groundwater withdrawn each year: 900,000 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/ Richard Pankratz
Date Dec. 31, 1963

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

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.
Miss 160 40
23 70 68

Phillips Co.

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

Fee #2.00

R.W. Maloney
Clerk & Recorder.
<table>
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<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<td>6w.4</td>
<td>23532</td>
<td></td>
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<td>Mona Valde</td>
<td>1963</td>
<td>23532</td>
<td></td>
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<tr>
<td>22</td>
<td>Lake Dr. Rail</td>
<td>1961</td>
<td>23990</td>
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<td>Lake Dr. Rail</td>
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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. NAME: Phillips
   (Name of Appropriator)
2. The beneficial use on which the claim is based: stock-watering purposes
3. Date or approximate date of earliest beneficial use; and how continuous the use has been: August 20, 1957
4. The amount of groundwater claimed (in miner's inches or gallons per minute): 50 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: Pumps
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: begun August 7, 1957, completed August 20, 1957
8. The depth of water table: 30 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: 765 feet deep, 4-inch casing
10. The estimated amount of groundwater withdrawn each year
11. The log of formations encountered in the drilling of each well if available: sandy-grey clay, sand gravel, sand, some rocks, sand, bear paw shale, grey shale, sandstone, grey shale, rock layer, sandstone, rock layer, sandstone, grey shale, sandstone, grey shale, sandstone, blue shale, sandstone, sandstone, sandstone, rock layer and sandstone
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: [Signature]

Date: August 23, 1963

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

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

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


Return.

235352
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

STATE ENGINEER

Owner: [Name]
Address: [Address]
Driller: [Name]
Address: [Address]
Date Started: [Date]
Date Completed: [Date]
Location: [Location]

Type of well: [Type]
Equipment used: [Equipment]

Water use: [Use]

Casing: [Details]
Type: [Type]
Size: [Size]

Perforated or Screened: [Details]
Type of screen or perforations: [Type]

Static Water level, for non-flowing well: [Level]
Shut-in pressure, for flowing well: [Pressure]

Pumping water level: [Level]
How tested: [Test]
Length of test: [Time]

Remarks: [Remarks]

(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>10</td>
<td>sand grey clay</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>15</td>
<td>sand gravel</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>25</td>
<td>sand, some rocks at 25 feet</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>65</td>
<td>sand</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>385</td>
<td>bear paw shale</td>
<td></td>
</tr>
<tr>
<td>385</td>
<td>485</td>
<td>grey shale (judith river formation)</td>
<td></td>
</tr>
<tr>
<td>485</td>
<td>440</td>
<td>sandstone</td>
<td></td>
</tr>
<tr>
<td>440</td>
<td>445</td>
<td>grey shale</td>
<td></td>
</tr>
<tr>
<td>445</td>
<td>447</td>
<td>rock layer</td>
<td></td>
</tr>
<tr>
<td>447</td>
<td>448</td>
<td>sandstone</td>
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</tr>
<tr>
<td>448</td>
<td>450</td>
<td>rock layer</td>
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<td>450</td>
<td>480</td>
<td>sandstone</td>
<td></td>
</tr>
<tr>
<td>480</td>
<td>490</td>
<td>grey shale</td>
<td></td>
</tr>
<tr>
<td>490</td>
<td>508</td>
<td>grey shale</td>
<td></td>
</tr>
<tr>
<td>508</td>
<td>520</td>
<td>sandstone</td>
<td></td>
</tr>
<tr>
<td>520</td>
<td>540</td>
<td>sandstone</td>
<td></td>
</tr>
<tr>
<td>540</td>
<td>555</td>
<td>grey shale</td>
<td></td>
</tr>
<tr>
<td>555</td>
<td>575</td>
<td>sandstone</td>
<td></td>
</tr>
<tr>
<td>575</td>
<td>585</td>
<td>blue shale</td>
<td></td>
</tr>
<tr>
<td>585</td>
<td>610</td>
<td>sandstone</td>
<td></td>
</tr>
<tr>
<td>610</td>
<td>670</td>
<td>sandy grey shale</td>
<td></td>
</tr>
<tr>
<td>670</td>
<td>730</td>
<td>sandstone</td>
<td></td>
</tr>
<tr>
<td>730</td>
<td>753</td>
<td>rock layer</td>
<td></td>
</tr>
<tr>
<td>753</td>
<td>765</td>
<td>sandstone</td>
<td></td>
</tr>
</tbody>
</table>
**WATER WELL LOG**

**Owner:** Wade Motsil  
**Address:** Regina, Montana

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

**Date Started:** Sept. 1, 1946  
**Date Completed:** Oct. 8, 1946

**Location:** Sec. 32 T. 24 R. 30 1/8 sec. NE 1/4

**Type of well:** Stock Water  
**Equipment used:** Churn Drill

**Water use:** Domestic □  
Municipal □  
Stock **X**  
Irrigation □

**Industrial □**  
Drainage □  
Other: ____________________________

<table>
<thead>
<tr>
<th>Casing:</th>
<th>396 ft. to 398 ft.</th>
<th>Type: heavy</th>
<th>Size: 4 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>521 ft. to 533 ft.</td>
<td>Type: heavy</td>
<td>Size: 3 in.</td>
</tr>
<tr>
<td>Casing:</td>
<td>__________________</td>
<td>Type: ______</td>
<td>Size: ______</td>
</tr>
</tbody>
</table>

**Perforated:** 40 ft. to 570 ft.  
**Perforated:** 590 ft. to 760 ft.

**Static water level, for non-flowing well:** 10 ft. below surface in 1961 feet.

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

**Pumping water level:** 50 ft. at 5 gal. per min.

**How tested:** With cylinder pump.

**Length of test:** Over period of 16 years.

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

**Water level stayed at the surface until 1959 but never flowed, but has dropped 10 ft. in the last two years.**

(over)
### Leg of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 12</td>
<td>Sand, brown clay, some gravel at 10' - 12'.</td>
</tr>
<tr>
<td>12 - 40</td>
<td>Dark shale, some water at 40'.</td>
</tr>
<tr>
<td>40 - 360</td>
<td>Dark Shale</td>
</tr>
<tr>
<td>360 - 383</td>
<td>Lighter grey shale</td>
</tr>
<tr>
<td>383 - 385</td>
<td>Sandstone, water.</td>
</tr>
<tr>
<td>385 - 400</td>
<td>Shaaley sandstone</td>
</tr>
<tr>
<td>400 - 408</td>
<td>Light blue shale sandy</td>
</tr>
<tr>
<td>408 - 412</td>
<td>Rock Layer</td>
</tr>
<tr>
<td>412 - 427</td>
<td>Grey sandy shale</td>
</tr>
<tr>
<td>427 - 430</td>
<td>Rock</td>
</tr>
<tr>
<td>430 - 460</td>
<td>Shaaley sandstone</td>
</tr>
<tr>
<td>460 - 490</td>
<td>Grey Shale</td>
</tr>
<tr>
<td>490 - 545</td>
<td>Darker grey shalce</td>
</tr>
<tr>
<td>545 - 552</td>
<td>Blue shaley sandstone, shales layers, water</td>
</tr>
<tr>
<td>552 - 580</td>
<td>Tan to brown shale</td>
</tr>
<tr>
<td>580 - 596</td>
<td>Sandy grey shale</td>
</tr>
<tr>
<td>596 - 600</td>
<td>Sandstone, water</td>
</tr>
<tr>
<td>600 - 620</td>
<td>Tan shale turning to brown</td>
</tr>
<tr>
<td>620 - 624</td>
<td>Brown shale</td>
</tr>
<tr>
<td>624 - 630</td>
<td>Sandy shale</td>
</tr>
<tr>
<td>630 - 635</td>
<td>Light brown shale</td>
</tr>
<tr>
<td>635 - 642</td>
<td>Light grey shale</td>
</tr>
<tr>
<td>642 - 670</td>
<td>Light brown shale</td>
</tr>
<tr>
<td>670 - 685</td>
<td>Sandy grey and tan shale</td>
</tr>
<tr>
<td>685 - 695</td>
<td>Crust of rock</td>
</tr>
<tr>
<td>695 - 720</td>
<td>Sandy grey &amp; tan shale</td>
</tr>
<tr>
<td>720 - 726</td>
<td>Sandstone, water</td>
</tr>
<tr>
<td>726 - 744</td>
<td>Brown shale</td>
</tr>
<tr>
<td>744 - 770</td>
<td>Sandstone, thin tan shale layers</td>
</tr>
<tr>
<td>770 - 772</td>
<td>Light brown shale</td>
</tr>
<tr>
<td>772 - 788</td>
<td>Dark brown shale</td>
</tr>
<tr>
<td>788 - 820</td>
<td>Sandstone</td>
</tr>
<tr>
<td>820 - 823</td>
<td>Tan shale</td>
</tr>
<tr>
<td>823 - 840</td>
<td>Shaaley sandstone</td>
</tr>
<tr>
<td>840 - 853</td>
<td>Shale, dark shale resembling the bear paw formation.</td>
</tr>
</tbody>
</table>
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

**Wade McNeil**, of **Regina**, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

<table>
<thead>
<tr>
<th>Grid</th>
<th>N</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**1.** Name of Appropriator: Wade McNeil

**2.** The beneficial use on which the claim is based: Live stock and house hold

**3.** Date or approximate date of earliest beneficial use, and how continuous the use has been: Oct 6, 1945

**4.** The amount of groundwater claimed (in miner's inches or gallons per minute): 6 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: 40 acres, owner: McNeil

**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: Oct 6, 1945

**8.** The depth of water table: 10 feet below surface to 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:

10. The estimated amount of groundwater withdrawn each year: 1,500,000 gallons

11. The log of formations encountered in the drilling of each well if available:
   - 32 feet of sand and gravel
   - 58 feet of sand
   - 66 feet of gravel
   - 60 feet of sand
   - 121 feet of gravel
   - 22 feet of sand
   - 28 feet of sand
   - 85 feet of sand

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

**Signature of Owner:** Wade McNeil

**Date:** Dec 18, 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>
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<td>15</td>
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<td>16</td>
<td>William E. Sprague</td>
<td>1954</td>
<td>220467</td>
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<td>Ray Meeksey</td>
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<td>232735</td>
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<td>Paul A. Courten (2nd)</td>
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<td>Paul A. Courten (1st)</td>
<td>Cw4</td>
<td>236575</td>
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<td>26</td>
<td>William E. Sprague</td>
<td>Cw4</td>
<td>237802</td>
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<tr>
<td>24</td>
<td>Chief Keeto</td>
<td>1958</td>
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<td>Edwin D. Keo</td>
<td>Cw4</td>
<td>236025</td>
<td></td>
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<tr>
<td>31</td>
<td>Chief H. Bemsted</td>
<td>1958</td>
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<td>Paul R. Shores</td>
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<td>235790</td>
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</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. John R. Armington & Alma C., of Malta, (Name of Appropriator)
   County of Phillips State of Montana (Address) (Town)

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

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

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: SEPTEMBER 12, 1944
      Continuous

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 4 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: No

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
      August 21, 1944 and finished September 12, 1944

   8. The depth of water table
      Flowing well

   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
      Artesian, 1 inch steel pipe, depth is 714 ft

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

   11. The log of formations encountered in the drilling of each well if available
      .0-1.33 sandy brown clay 250-470 slightly grey shale 547.555 sandstone water
      1.33-3.33 sandy clay & gravel 470-479 rock layer 555.570 shale
      3.33-11.9 blue shale 479.517 tan colored shale 570-640 shale and sandstone
      11.9-250 blue grey shale 517.565 brown shale 640-640 tan sandy shale

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

   13. (Cont'd)

   14. (Cont'd)

   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.

   Signature of Owner: John R. Armington
   Date: May 7, 1962
State of Montana,
County of Phillips,

Filed for Record this 7th day of Nov., A.D. 1965
at 2:45 o'clock P.M. and duly Recorded in book

Page of

By

Fees

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

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

1. William E. Spencer, of Mattie
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: stock

3. Date or approximate date of earliest beneficial use: Jan 1, 1939, Continuously

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 60 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: Sept. 1959

8. The depth of water table: 60 ft.

9. So far as it may be available, the type, size and depths of each well or the general specifications of any other works for the withdrawal of groundwater: Drilled 50 ft deep, screen 20 ft deep, outlet 30 ft deep

10. The estimated amount of groundwater withdrawn each year: 1,000,000 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: William E. Spencer
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.
June 15, 1983
237011

Phillips Co.

Filed 12-31-63.
at 10:20 A.M.

See 2.10

R. V. Maloney
Clerk & Rec.
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: William Jones
Address: Miles, Montana

Driller: Knud & Ray Aron
Address: Miles, Montana

Date Started: Sept 23, 1958
Date Completed: Sept 27, 1958

Location: Sec. 15, T. 24, R. 21, 1/4 sec. S.W. 1/4

Type of well: Drilled
Equipment used: Rotary
Type of screen or perforation: 3/8 inch holes drilled

Water use: Stock

Casing: 0 ft. to 870 ft. Type: Steel Size: 4 inch

Perforated or Screened: 850 ft. to 1650 ft. Type: Perforated Size: 7/8

Static Water level, for non-flowing well: 2 feet

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

Pumping water level: 100 feet at 6 gal. per min.

How tested: Pumped

Length of test: 3 hours

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></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Topsoil</td>
</tr>
<tr>
<td>7</td>
<td>Clay</td>
</tr>
<tr>
<td>57</td>
<td>Sand</td>
</tr>
<tr>
<td>70</td>
<td>Sand and clay</td>
</tr>
<tr>
<td>316</td>
<td>Gravel</td>
</tr>
<tr>
<td>318</td>
<td>Chalk</td>
</tr>
<tr>
<td>431</td>
<td>Rock (1 inch)</td>
</tr>
<tr>
<td>543</td>
<td>Judith formation</td>
</tr>
<tr>
<td>568</td>
<td>Rock (2 inches)</td>
</tr>
<tr>
<td>663</td>
<td>Judith formation</td>
</tr>
<tr>
<td>687</td>
<td>Rock (1 inch)</td>
</tr>
<tr>
<td>790</td>
<td>Judith formation</td>
</tr>
<tr>
<td>791</td>
<td>Rock (1 inch)</td>
</tr>
<tr>
<td>865</td>
<td>Judith formation</td>
</tr>
<tr>
<td>870</td>
<td>Clagetite Chalk</td>
</tr>
</tbody>
</table>

**Misc. # 14873**

**File Number:** 14873

**State of Missouri,**

**County of Phillips,**

**Filed:** 7-15-1919

**Filed by:** D. B. Reynolds

**Recorded:** 7-15-1919

**Deed:** D. B. Reynolds

**Witness:**

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

I, Gay Holley, of . , have appropriated groundwater according to the Montana law in effect prior to January 1, 1964, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1924
   Continuous from date

4. The amount of groundwater claimed (in miner's inches or gallons per minute): Three 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: 750

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:
   620 ft. 6-1/2" casing

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

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: Gay Holley
Date: Oct. 8, 1964

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

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

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

2997
Miss 15-797

235,775
3,367,775

Filed: Dec. 30, 1963
At: 3:22 p.m.
Fee $1,00

[Signature]

[Signature]
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. **Name of Appropriaotr**
   - Address

2. **County**
   - State

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

3. **The beneficial use on which the claim is based**
   - Household

4. **Date or approximate date of earliest beneficial use and how continuous the use has been**
   - Month, Day, Year

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

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

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

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**
   - Drilled well about 80 ft. deep

10. **The estimated amount of groundwater withdrawn each year**
    - 1036.800

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: 
   
   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 Appropriaotr.
Mise 15978
237606

Phillips, Mont.
File 12-31-63
at 10:15 A.M.
Fee $2.00

R. D. Maloney
Cl. & Rec.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

EARL A. CROWDER
Estate of Region, MONTANA

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: LIVESTOCK WATER

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: JUNE 1, 1927

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 3 Three 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: NONE

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: JUNE 15, 1927 / JUNE 1, 1927

8. The depth of water table: 965 Foot

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: DILLAD, 4" Casing, 965 Ft.

10. The estimated amount of groundwater withdrawn each year: 50,000 Gallons

11. The log of formations encountered in the drilling of each well if available: SAME AS OTHER WELL ONLY FORMATIONS

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

Date Dec 23, 1963

Signature of Owner: EARL A. CROWDER

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

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

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

Filed for record this 23rd day of December, 1911, at 3 o'clock in the afternoon of M., and the same recorded in book ______________ of ______________.

R. S. W. W. McLeod, Recorder
By __________________________________
For ________________________________
Returns ______________________________
## Declaration of Vested Groundwater Rights

*Under Chapter 237, Montana Session Laws, 1961*

**Earl A. Crowder**  
*Est. of Regina*  
*Malta*

**(Name of Appropriator)**  
**(Address)**  
**(Town)**

**County of Phillips**  
**State of Montana**

**Declaration of Vested Groundwater Rights**

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

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

1. Declaration of Vested Groundwater Rights

2. The beneficial use on which the claim is based: **Household and Livestock Water**

3. Date or approximate date of earliest beneficial use: **August 1, 1945**

4. The amount of groundwater claimed (in miner's inches or gallons per minute): **3 - Three Gallons**

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **September 15, 1945**

8. The depth of water table: **980 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: **6-SIX INCH CASING 80-EIGHTY FOOT, 8-TWO EIGHT CASING 240 FOOT 14-DUE AND A QUARTER INCH ALL THE WAY DOWN TO 980-NINE HUNDRED AND SIXTY FEET**

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

11. The log of formations encountered in the drilling of each well if available: **86 FT. THROUGH GRAVEL 250 FT 16 HARD SAND, 412 FT. SAND ROCK, 647 FT. THROUGH, 5490 FT. 3RD SAND ROCK, 3D SAND ROCK 114, 3RD SAND ROCK 4 FT. THROUGH, 164 FT. IN SAND ROCK & THROUGH**

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

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

Please answer all questions. If not applicable, so state, others of 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.

Date: **December 23, 1963**

---

\[ 12477 \]
State of Montana,
County of Phillips,

Filed for Record this 23rd day of December, A.D. 1910, at 11 o'clock A.M., and duly recorded in book
Page of...............

Rosalie A. Miller, County Recorder
By...............
File.............
Return..................
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

William E. Spencer

County of Phillips, State of Montana

I, William E. Spencer, hereby declare and state that we, the said William E. Spencer, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

1. Stock

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. The depth of water table.

10. The estimated amount of groundwater withdrawn each year.

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

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

Signature of Owner: ____________________________
Date: ________________

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriate.
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clark Koss</td>
<td>酣</td>
<td>Claude and Ray Driss</td>
<td>Butte, Mont.</td>
</tr>
</tbody>
</table>

Date Started: June 16, 1958  Date Completed: June 29, 1958

Location: Sec. 26, T. 24 R. 31 1/2 sec. E. 8. M.N.

Type of well: Drilled  Equipment used: Rotary

Water use: Domestic  Municipal  Stock  Irrigation

Industrial  Drainage  Other:

Casing: 0 ft. to 43 ft.  Type:  Size: 6 inch

Casing: ft. to ft.  Type:  Size:

Casing: ft. to ft.  Type:  Size:

Perforated or Screened: Ft. 14 to 43 Ft.  Type:  Size:

Type of screen or perforations: 1/4 inch holes

Static Water level, for non-flowing well: 10 feet.

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

Pumping water level: 30 feet at 8 gal. per min.

How tested: Bailed

Length of test: 2 hrs.

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

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 8</td>
<td>Tiperd</td>
</tr>
<tr>
<td>8 - 21</td>
<td>Fine sand</td>
</tr>
<tr>
<td>21 - 43</td>
<td>Coarse sand</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. Charles Rossi
   (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
   (Must be irrigation)
   "STRAIGHT IRIGATION"

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   "1957 - 1958, every year continues use"
   "1959 - 1969, every other year"

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

   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:
   "Acreage: 5"2.41.426.429.42 R. 31"

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   "Location shown as above"

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   "Not applicable" 6.3.1.1.1.1.1.1.

   8. The depth of water table:
   "A. 1 = 7 ft. B. 2 = 10 ft. C. 3 = 10 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:
   "Type: 1. 1/4 "
   "Size: 4X6 ft.
   "Depth: 15 ft."
   "Casing: perforated on 3" inch 14 ft. 4" depth"

   10. The estimated amount of groundwater withdrawn each year:
   "1,000,000 gallons"

   11. The log of formations encountered in the drilling of each well if available:
   "Formation x and x."

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

   Signature of Owner:

   Date:

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
March 15 949

236977
Phillips Co.

Filed 12-31-63.
at 9:46 A.M.
Fee $2.00
R. V. Maloney
Clark & Co.
Notice of Completion of Groundwater Appropriation by Means of Well

Owner: JOSEPH KOREL
Address: MALTA, MONTANA

Driller: SIMPSON DRILLING CO
Address: MALTA, MONTANA

Date of Notice of appropriation of ground water: NOV 18, 1963
Date well started: NOV 18, 1963
Date Completed: Nov 22, 1963

Type of well: Drilled
Equipment used: 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.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of casing</th>
<th>From Top (Feet)</th>
<th>To (Feet)</th>
<th>Depth (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>4&quot;</td>
<td>11</td>
<td>19</td>
<td>8</td>
<td>24</td>
</tr>
</tbody>
</table>

| Static Water Level for non-flowing well | 9 feet |
| Shut-in Pressure for flowing well | 8 feet |
| Pumping Water Level | 13 feet |
| at | 8 gal. per minute |
| Discharge in gal. per min. of flowing well | 22 |

How Tested: Flow test for one 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) was unable to make a well in the gravel at 126 feet; gravel packed 16-22 with pea size gravel and developed a good well 13

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 Appropriator.
Mile 15948
Number 236976
Phillips Co.
Filed 12-31-63
at 9:45 A.M.
Fee $2.00

R. W. Maloney
U. S. Rea
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Charles G. Barnard  
Address: Regina, Montana

Driller: Simpson Drilling Company  
Address: Malta, Montana

Date of Notice of appropriation of ground water:

Date well started: August 19, 1967  
Date Completed: August 26, 1967

Type of well: drilled  
Equipment used: churn (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.

### Size of Drilled Hole

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From</th>
<th>To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>threaded</td>
<td>0</td>
<td>123</td>
<td>none</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: pumped

Length of Test: one 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)

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for Appropriator.
W. A. Barnard
Owner: Charles G. Barnard
Address: Malta, Mont.

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

Date Started: June 1947
Date Completed: Aug. 1947

Location: Sec. 32, T. 34 N., R. 31 W., 1/4 sec. 32

### Type of well
- Artesian

### Equipment used
- Falling-Battery

### Water use
- Domestic
- Municipal
- Stock
- Irrigation
- Industrial
- Drainage
- Other

### Casing
- 0 ft. to 400 ft. Type: Blk. Size: 4 inch
- 400 ft. to 800 ft. Type: Galvanised Size: 2 inch
- 800 ft. to 1200 ft. Type: Other

### Perforated or Screened
- 800 ft. to 1200 ft. Type: 1/4-inch-holes

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

### Shut-in pressure, for flowing well
- 12 lb./sq. in. on: Aug. 15, 1947

### Pumping water level
- Not-tested

### 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>0</td>
<td>215</td>
<td>235</td>
<td>Aluvial soil and gravel in preglacial Musselshell</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>River bed.</td>
</tr>
<tr>
<td>215</td>
<td>235</td>
<td>267</td>
<td>shale (Eocene)</td>
</tr>
<tr>
<td>267</td>
<td>600</td>
<td></td>
<td>Lateral bearing strata - Judith River Formation</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. Edwin M. Rose
   (Name of Appropriator) of Regina
   (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: For livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Dec. 1958

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

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

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: 620 ft.

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

10. The estimated amount of groundwater withdrawn each year: 30,000 gals

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: Edwin Rose
   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.
Mar 15 977
237005
Phillip Mont
Died 12-31-63
at 10:14 A.M.
See 42.00
P. V. Meloney
Ch. P. D.
# MONTANA BUREAU OF MINES AND GEOLOGY

## Butte, Montana

### WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Edwin Koss</th>
<th>Address: Regina, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>Claude &amp; Ray Shores</td>
<td>Address: Malta, Montana</td>
</tr>
<tr>
<td>Date Started</td>
<td>June 4, 1958</td>
<td>Date Completed: June 9, 1958</td>
</tr>
<tr>
<td>Location: Sec.</td>
<td>30</td>
<td>T. 24 R. 31 SENE</td>
</tr>
<tr>
<td>Type of well</td>
<td>drilled</td>
<td>Equipment used: rotary</td>
</tr>
<tr>
<td>Water use:</td>
<td>Domestic [ ]</td>
<td>Municipal [ ]</td>
</tr>
<tr>
<td></td>
<td>Stock [X]</td>
<td>Irrigation [ ]</td>
</tr>
<tr>
<td></td>
<td>Industrial [ ]</td>
<td>Drainage [ ]</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to 160 ft.</td>
<td>Type: 6 inch</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Size:</td>
</tr>
<tr>
<td>Perforated or Screened: Ft.</td>
<td>50 to 160</td>
<td>Size:</td>
</tr>
<tr>
<td>Type of screen or perforations:</td>
<td>½ inch holes</td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>25 feet</td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well: lb./sq. in. on: (date)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>50 feet at 4 gal. per min</td>
<td></td>
</tr>
<tr>
<td>How tested:</td>
<td>bailed</td>
<td></td>
</tr>
<tr>
<td>Length of test:</td>
<td>2 hours</td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
<td></td>
</tr>
</tbody>
</table>

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0</td>
<td>To 10</td>
</tr>
<tr>
<td></td>
<td>Topsoil</td>
</tr>
<tr>
<td>From 10</td>
<td>To 15</td>
</tr>
<tr>
<td></td>
<td>Sandy clay</td>
</tr>
<tr>
<td>From 15</td>
<td>To 60</td>
</tr>
<tr>
<td></td>
<td>Shale &amp; sand</td>
</tr>
<tr>
<td>From 60</td>
<td>To 140</td>
</tr>
<tr>
<td></td>
<td>Shale</td>
</tr>
<tr>
<td>From 140</td>
<td>To 160</td>
</tr>
<tr>
<td></td>
<td>Soft sandy shale</td>
</tr>
</tbody>
</table>
WATER WELL LOG

| Owner:     | Elmer Beamish | Address: Regan, Montana |
| Driller:   | Claude and Ray Snow | Address: Malta, Montana |

**Date Started:** Aug 1, 1958  **Date Completed:** Aug 18, 1958

**Location:** Sec. 31  T. 24 N., R. 31 E., 7/4 sec., SW 1/4, NE 1/4

### Type of well
- Drilled

### Equipment used
- Rotary

### Water use
- Stock ✗

### Casing:
- 0 ft. to 850 ft.
  - Type: galvanized
  - Size: 2 inch

### Perforated or Screened:
- 620 ft. to 660 ft. 720 ft. to 780 ft.
- Type of screen or perforations: 3/8 inch holes drilled

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

### Shut-in pressure, for flowing well:
- 5 lb./sq.in. on: Aug 18, 1958

### 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)

---

(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 19</td>
<td>Top soil</td>
</tr>
<tr>
<td>9 111</td>
<td>Sand and gravel</td>
</tr>
<tr>
<td>111 410</td>
<td>shale</td>
</tr>
<tr>
<td>410 415</td>
<td>Judith formation</td>
</tr>
<tr>
<td>415 417</td>
<td>rock (19&quot;)</td>
</tr>
<tr>
<td>417 553</td>
<td>Judith formation</td>
</tr>
<tr>
<td>553 555</td>
<td>rock (22&quot;)</td>
</tr>
<tr>
<td>555 615</td>
<td>Judith formation</td>
</tr>
<tr>
<td>615 616</td>
<td>rock (3&quot;)</td>
</tr>
<tr>
<td>616 633</td>
<td>Judith formation</td>
</tr>
<tr>
<td>633 636</td>
<td>rock (3&quot;)</td>
</tr>
<tr>
<td>636 831</td>
<td>Judith formation</td>
</tr>
<tr>
<td>831 832</td>
<td>rock (2&quot;)</td>
</tr>
<tr>
<td>832 850</td>
<td>Judith formation</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. EARL R. SHORES of REGINA
   (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: STOCK WATER

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: APRIL 9, 1960
   CONTINUOUS USE

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: APRIL 6, 1960 - APRIL 7, 1960

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: 2,500,000 GALS

11. The log of formations encountered in the drilling of each well if available:
   - SOIL A 361 - 860 JUDITH RIVER FORMATION
   - SOIL B 361 - 870 CLAY TOP
   - SOIL C 361 - 870 SHELTER 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:

   Signature of Owner: EARL SHORES
   Date: DEC 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>Field</th>
<th>Details</th>
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<tbody>
<tr>
<td>Owner</td>
<td>Earl Shores</td>
</tr>
<tr>
<td>Address</td>
<td>Regina, Mont</td>
</tr>
<tr>
<td>Driller</td>
<td>Ray Shores</td>
</tr>
<tr>
<td>Address</td>
<td>Regina, Mont</td>
</tr>
<tr>
<td>Date Started</td>
<td>April 6, 1960</td>
</tr>
<tr>
<td>Date Completed</td>
<td>April 7, 1960</td>
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<tr>
<td>Location</td>
<td>Sec. 34, T. 24, R. 31E 1/4 sec. SW 5</td>
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<tr>
<td>Type of well</td>
<td>Drilled</td>
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<tr>
<td>Equipment used</td>
<td>Rotary</td>
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<td>Water use</td>
<td>Stock</td>
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<td>Industrial</td>
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<tr>
<td>Municipal</td>
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</tr>
<tr>
<td>Stock</td>
<td></td>
</tr>
<tr>
<td>Stock</td>
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<tr>
<td>Irrigation</td>
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</tr>
<tr>
<td>Drainage</td>
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<tr>
<td>Other</td>
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<td>Casing:</td>
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<tr>
<td>Type of Casing</td>
<td>4 inch ID</td>
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<tr>
<td>Size</td>
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<td>Type of Casing</td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td></td>
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<tr>
<td>Perforated or Screened</td>
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</tr>
<tr>
<td>Ft</td>
<td>500 to 840</td>
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<tr>
<td>Type of Perforation</td>
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<tr>
<td>Screen or perforations</td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td></td>
</tr>
<tr>
<td>feet</td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td></td>
</tr>
<tr>
<td>Lb/sq. in. on:</td>
<td>7</td>
</tr>
<tr>
<td>date</td>
<td>April 12, 1960</td>
</tr>
<tr>
<td>Pumping water level</td>
<td></td>
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<tr>
<td>feet at</td>
<td></td>
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<tr>
<td>gal. per min</td>
<td></td>
</tr>
<tr>
<td>How tested</td>
<td></td>
</tr>
<tr>
<td>Length of test</td>
<td></td>
</tr>
<tr>
<td>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
<td></td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------</td>
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<tr>
<td>0.24</td>
<td>Sandy clay</td>
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<td>24.49</td>
<td>Sand</td>
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<tr>
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<td>77.381</td>
<td>Shale (Kear over)</td>
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<td>381.382</td>
<td>Rock 17&quot;</td>
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<tr>
<td>382.419</td>
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<tr>
<td>419.420</td>
<td>Rock 12&quot;</td>
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<tr>
<td>420.432</td>
<td>Judith River formation</td>
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<tr>
<td>432.440</td>
<td>Sand, sandstone</td>
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<tr>
<td>440.442</td>
<td>Rock 22&quot;</td>
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<tr>
<td>442.478</td>
<td>Judith River formation</td>
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<tr>
<td>478.479</td>
<td>Rock 6&quot;</td>
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<td>479.557</td>
<td>Judith River formation</td>
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<tr>
<td>557.558</td>
<td>Rock 11&quot;</td>
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<td>558.570</td>
<td>Judith River formation</td>
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<tr>
<td>570.576</td>
<td>Rock 59&quot;</td>
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<tr>
<td>576.850</td>
<td>Judith River formation</td>
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## GROUNDWATER INDEX

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<tbody>
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<td>10</td>
<td>Adam C. Keas</td>
<td>Gw4</td>
<td>237672</td>
<td></td>
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<tr>
<td>33</td>
<td>Billie Lou Annett</td>
<td>Gw4</td>
<td>237673</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Billie Lou Annett</td>
<td>Gw4</td>
<td>237674</td>
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<tr>
<td>24</td>
<td>W.A. Bagwell</td>
<td>1958</td>
<td>217302</td>
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</tr>
<tr>
<td>35</td>
<td>Virginia E. Keas</td>
<td>Gw4</td>
<td>237673</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Virginia E. Keas</td>
<td>Cw4</td>
<td>237674</td>
<td></td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Adam G. Koss, of 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:

- The beneficial use on which the claim is based: domestic and livestock and irrigation.

- Date or approximate date of earliest beneficial use: April, 1955

- Continuous use.

- Amount of groundwater claimed (in minor's inches or gallons per minute): 12 gallons per minute

- If used for irrigation, give the acreage and description of the land to which water has been applied and name of the owner thereof: 5 acres, same owner, NE NW Sec. 10 T 24 R 32

- Electric submerged pump at 320 ft.

- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: April, 1955

- Depth of water table: 250 ft.

- Type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: 1085 ft. deep, 500 ft. of 5th steel casing, 500 ft. of 3rd steel casing

- Estimated amount of groundwater withdrawn each year: One million gallons

- Log of formations encountered in the drilling of each well if available: (Not available)

- 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/ Adam G. Koss

Date: 12-31-63

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Mile 16044
237072.
Phillips Co.
Filed 12-31-63.
at 11:15 A.M.
Fee $2.50.
R. W. 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, 1981)

1. Billie Lou Arnott, of Utica
   (Name of Appropriator) (Address) (Town)

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1932

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

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

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. 1932

8. The depth of water table 10 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. Rock casing

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

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

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

Signature of Owner /s/ Billie Lou Arnott
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 Appropiator.
Miss 16043.
237071

Phillipe C.
Filed 12-31-63.
at 11:14 A.M.
Dec. 3, 63

W.O. Maloney
Clerk or Rec.
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>1. Billie Lou Arnott</th>
<th>of</th>
<th>Utica</th>
<th>UTica</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Name of Appropriator)</td>
<td>(Address)</td>
<td>(Town)</td>
<td></td>
</tr>
</tbody>
</table>

County of Montana, 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.
   - **Domestic**
   - **Livestock**

2. Date or approximate date of earliest beneficial use.
   - **January, 1958**
   - **Continuous**

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.
   - **Submersible**

6. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
   - **January, 1958**

7. The depth of water table.
   - **260 feet**

8. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.
   - **1/2 inch, 1/2 inch, 40 feet**
   - **Drilled, 40 feet**
   - **Four inch I.D.**
   - **eleven**

9. The estimated amount of groundwater withdrawn each year.
   - **Two million gallons**

10. The log of formations encountered in the drilling of each well.
    - **Clay, shale, sandstone, rock layers, shale and sandstone, sandy shale, shaley sandstone, rock layer, shale and sandstone, sandstone, brown shale, sandstone, shale and sandstone.**

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.

Signature of Owner: /s/ Billie Lou Arnott.

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. 16047
2370.70.

Phillip Co.

Filed 12-31-63.
At 11:13 A.M.
Fee 2.00

R. V. Maloney
Clerk
### WATER WELL LOG

**Owner:** W. A. Bernard  
**Address:** Malta, Mont.

**Driller:** R. C. Simpson  
**Address:** Malta, Mont.

**Date Started:** Dec. 20, 1966  
**Date Completed:** Feb. 1, 1967

**Location:** Sec. 34, T. 24, R. 38, S.

---

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

**Water use:** Domestic  
**Equipment used:**
- Drilled: [ ]
- Rotary: [ ]

**Casing:**
- Type: Black
- Size: 4 inch
- Length: 1100 ft

**Perforated:**
- Ft.: to ft.
- Type of screen or perforations:

**Static Water level, for non-flowing well:** 280 feet

**Shut-in pressure, for flowing well:**
- Date:
- lb./sq. in.:
- Gal. per min.:

**Pumping water level:**
- Date:
- Gal. per min.:

**How tested:**
- The pump is installed at 300 feet and will not pump down on continuous operation and 10 gal. per minute.

**Remarks:**
- Gravel packing, cementing, packers, type of shut-off, depth of shut-off
- Earth packed at surface to seal casing.

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(over)