<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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<tr>
<td>5</td>
<td>Dr. William Roche</td>
<td>20</td>
<td>16663</td>
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</tr>
<tr>
<td>9</td>
<td>Clinic, Rural T.</td>
<td>20</td>
<td>16412</td>
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<tr>
<td>12</td>
<td>Dorsett, Curtis</td>
<td>20</td>
<td>17332</td>
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<tr>
<td>13</td>
<td>Videre, W. H.</td>
<td>20</td>
<td>17387</td>
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<tr>
<td>15</td>
<td>Perry, W. I.</td>
<td>20</td>
<td>173701</td>
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<tr>
<td>17</td>
<td>Hardy, W.</td>
<td>20</td>
<td>17387</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Hydes &amp; Sons, E.</td>
<td>20</td>
<td>17118</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Weiss, M.</td>
<td>20</td>
<td>17321</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Mass, Willard</td>
<td>20</td>
<td>17375</td>
<td></td>
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<tr>
<td>24</td>
<td>Hardy, W.</td>
<td>20</td>
<td>123321</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Hydes &amp; Sons, E.</td>
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<td>17459</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Weiss, M.</td>
<td>20</td>
<td>17149</td>
<td>In lieu of 29</td>
</tr>
<tr>
<td>32</td>
<td>Kesting, Herman</td>
<td>20</td>
<td>32205</td>
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</tr>
<tr>
<td>33</td>
<td>Weiss, C. I.</td>
<td>20</td>
<td>17184</td>
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</tr>
<tr>
<td>52</td>
<td>Weiss, C. I.</td>
<td>20</td>
<td>17184</td>
<td></td>
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<tr>
<td>53</td>
<td>Weiss, C. I.</td>
<td>20</td>
<td>13129</td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>Hydes &amp; Sons, E.</td>
<td>20</td>
<td>12284</td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>Story, T.</td>
<td>20</td>
<td>16522</td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>Weiss, C. I.</td>
<td>20</td>
<td>118825</td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>Story, T.</td>
<td>20</td>
<td>176728</td>
<td></td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: M. William Plante
Address: 4001 S. Postal

Driller: B. M. Munson
Address: 4001 S. Postal

Date of Notice of Appropriation of Groundwater Appropriation: 11-24-64
Date well started: 1-14-64
Date Completed: 12-24-64
Type of well: Rotary
Equipment Used: Diamond Drill

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

(Cemented 0-30. Casing 206. packers 24, 26 and 206)

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, state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
### Notice of Completion of Groundwater Appropriation by Means of Well

Under Chapter 237, Montana Session Laws, 1961

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

<table>
<thead>
<tr>
<th>Top of Ground</th>
<th>Size (Ft)</th>
<th>Weight of Casing (lbs)</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topsoil</td>
<td>5 5/8</td>
<td>440 440</td>
<td>328 Slots</td>
</tr>
<tr>
<td>Clay sand drift</td>
<td>11#</td>
<td>1 foot below ground</td>
<td>2&quot;</td>
</tr>
<tr>
<td>Shale</td>
<td>220</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White shale</td>
<td>230</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown shale</td>
<td>240</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White shale rock</td>
<td>260</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sandy shale</td>
<td>270</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coal</td>
<td>280</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shale coal sand break</td>
<td>320</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Static Water Level for Non-flowing Well: **None**

**Shut-in Pressure for Flowing Well:** **None**

**Pumping Water Level:** **None**

**Discharge in gal per min. of flowing well:** **None**

**How Tested:** Measured

**Length of Test:** **None**

**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.

**Packer set at 130 ft cemented with 5 sacks.**

#### 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 the Appropriator.
16419

COPY

State of Montana, 

County of Fergus

Filed . NOV 2 1963
at 2:15 p.m.

Larry Neidhammer
County Clerk and Recorder

2-23-63
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 257, Montana Session Laws, 1961)

1. PAUL DONESTHORPE and RAMONA O. DONESTHORPE 1101 W. Washington Lewistown
   (Name of Appropriator) (Address) (Town)

   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: stock water and domestic uses

   3. Date or approximate date of earliest beneficial use, and how continuous the use has been: 1916 — completed 1944
      continuous use since 1916

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

   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
      stock water

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

      SE 1/4 NW Sec. 12 T. 19 N. R. 19
      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: 1926 — 1944

   8. The depth of water table: surface water

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

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

   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: this is a reservoir for watering livestock

   Signature of Owner: PAUL DONESTHORPE
   Date: December 11, 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)

Declariation of

1. Tom Sharp  & Mildred Wallis  
   (Name of Appropriator)  
   (Address)  
   (Town)  
   (County)  
   (State)

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

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

3. Date or approximate date of earliest beneficial use and how continuous the use has been:  
   January 3, 1962  

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

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

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

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:  
   70 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:  
   5 & 5/8 - 86 Ft.  

10. The estimated amount of groundwater withdrawn each year:  
    40,000 Barrels  

11. The log of formations encountered in the drilling of each well if available:  
    Spudded into the Judith River Formation & T.B. in the same.  

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. 3, 1963

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

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

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

Filed  DECEMBER 19
at 3:30 o'clock P.M.

MAY MABBON
County Clerk and Recorder
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: M. L. Smith
Address: Choteau, M. T.

Driller: C. L. Thistle
Address: S. F., M. T.

Date of Notice of Appropriation of Groundwater: Sept. 4, 1962
Date well started: 8-17-63
Date Completed: 8-23-63

Equipment Used:
Type of well: dug, driven, bored or drilled

Water Use:
- Domestic □
- Municipal □
- Stock X
- 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
Shut-in Pressure for Flowing Well
Pumping Water Level: 125 feet at 2 gal. per minute.
Discharge in gal. per min. of flowing well: 50
Length of Test: 2½ hrs

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)

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 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)

STATE ENGINEER

   (Name of Appropriator) (Address)

   County of PERUS 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: Raising Stock

   3. Date or approximate date of earliest beneficial use, and how continuous the use has been: 1913 year, continuous.

   4. The amount of groundwater claimed (in inches or gallons per minute): 12 gal. per minute.

   5. If used for irrigation, give the average 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 works for withdrawal:

   Indicate point of appropriation and place of use, if possible. Each small square represents 36 acres.

   ¾ Sec. 20 T. 19 R. 19

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Year 1913.

   8. The depth of water table: 12 ft.

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

   Hand dug, depth 12 feet.

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

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

   Dirt, gravel and rock.

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

   Signature of Owner: __________________________

   Date / 2 - 27 - 63 /

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

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

   Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1931)

1. Michael H. Wallin, of Christena, Mont.
   (Name of Appropriator) (Address)
   County of Fergus, State of Montana,
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1965, as follows:

   2. The beneficial use on which the claim is based, and use with the land.

   3. Date or approximate date of earliest beneficial use: Date or approximate date of earliest beneficial use: Oct. 3, 1966.

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

   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, 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 other 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 Dec 30, 1965

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.

File No. 17391

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

Notice of Completion of Groundwater Appropriation by Groundwater Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: John D. Smith
Address: 123 Main St., Bozeman, MT 59715

Driller: J. K. Frick
Address: 456 Water St., Helena, MT 59601

Date of Notice of Appropriation of Groundwater: Sept. 6, 1963

Date well started: Oct. 12, 1963

Date Completed: Dec. 30, 1963

Type of well: Drilled

Equipment Used: Drilling Rig

Water Use: 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 the water rises in the well.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>41/2 in.</td>
<td>4 in.</td>
<td>0 223</td>
<td></td>
</tr>
<tr>
<td>7 in.</td>
<td>5 in.</td>
<td>170</td>
<td>2.5 ft.</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 65 feet.

Shut-in Pressure for Flowing Well: 120 feet at 5 gal. per minute.

Pumping Water Level: 120 feet at 5 gal. per minute.

Discharge in gal. per min. of flowing well: 300

How Tested: Water Level

Length of Test: 3 hrs.

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)

Driller's License Number: 12345

Driller's Signature: J. K. Frick

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.
Notice of Completion of Groundwater Appropriation by M. J. Wixler
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Mildred Wixler
Address: Christiana
Driller: O. C. Thatcher
Address: Stanford
Date of Notice of Appropriation of Groundwater: Sept. 4, 1963
Date well started: 8-15-63
Date completed: 8-18-63
Type of well: Drilled
Equipment used: Rotary (Churn, drill, rotary or other)

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

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

<table>
<thead>
<tr>
<th>Size and Weight of Casing (Feet)</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Kind</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 1/2</td>
<td>0</td>
<td>104</td>
<td>0</td>
<td>4 x 1/2</td>
</tr>
<tr>
<td>788 Gal. well casing</td>
<td>104</td>
<td>55</td>
<td>55</td>
<td>104</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well... 50 feet.
Shut-in Pressure for Flowing Well
Pumping Water Level... 100 feet and 3 1/2 gal. per minute.
Discharge in gal. per min. of flowing well...
How Tested: Bailer
Length of Test: 3 hr.
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

Packer Set at 38 feet

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 the Appropriator.
I

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

JAMES F BERNES
(Name of Appropriator)

County of Fergus
(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

3. Date or approximate date of earliest beneficial use, and how continuously this use has been continued:

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

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

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

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

8. The depth of water table

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

10. The estimated amount of groundwater withdrawn each year

11. The log of formation encountered during the drilling of each 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

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.
DEC 27 1963
Filed 2:20  F. N.

Copy
**Notice of Completion of Groundwater Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1962

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

---

**Top of Ground**

<table>
<thead>
<tr>
<th>Elev. above sea level</th>
<th>0</th>
<th>1</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>45</th>
<th>48</th>
<th>70</th>
<th>75</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topsoil</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clay and gravel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yellow sandy clay</td>
<td></td>
<td></td>
<td></td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blue clay</td>
<td></td>
<td></td>
<td></td>
<td>30</td>
<td>35</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Sandy clay blue</td>
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<td></td>
<td></td>
<td>35</td>
<td>45</td>
<td>48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sandstone water</td>
<td></td>
<td></td>
<td></td>
<td>45</td>
<td>50</td>
<td>55</td>
<td>58</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Shale</td>
<td></td>
<td></td>
<td></td>
<td>70</td>
<td>75</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Owner:** Kettering Bros. | **Address:** Christina, Montana

**Driller:** George C. Singley | **Address:** Lewistown, Montana

**Date of Notice of appropriation of groundwater:** None

**Date well started:** June 6, 1970 | **Date completed:** June 10, 1970

**Type of well:** Drilled | **Equipment used:** Rotary

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

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

**PERFORATIONS**

<table>
<thead>
<tr>
<th>Size of Defiled Hole</th>
<th>Size and Weight of casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Kinds of Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-7/8</td>
<td>0</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-5/8</td>
<td>25</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-1/8</td>
<td>35</td>
<td>75</td>
<td></td>
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</tr>
<tr>
<td>6-7/8</td>
<td>58</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Shut-in Pressure for Flowing Well:** None

**Pumping Water Level:** 15 feet at 10 gal. per minute.

**Discharge in gal. per min. of flowing well:** None

**How Tested:** Bailier

**Length of Test:** 1 hr.

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

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

---

**Show exact depth of bottom.**

---

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, tense copy to be retained by driller.

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

---

Driller’s License Number: 19

Driller’s Signature: [Signature]

Date: 9/28/05
State of Montana.
County of Fergus.

Filed: JUN. 1, 1970
at 12:15 P.M. of the day mentioned.

[Signature]
County Clerk and Recorder
 Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. EDITH SUEN, formerly Edith Dunsthorne, of Stanford
   (Name of Appropriator) (Address) (Town)
   County of Judith Basin 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 livestock use

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been:  
      2 wells - 1913 and 1945  
      continuously

   4. The amount of groundwater claimed (in miner's inches or gallons per minute):  
      all water of said 2 wells

   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:  
      pump

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:  
      1913 and 1945

   8. The depth of water table:  
      10 - 12 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:  
      2 pumps of 1 1/2 HP; depth of water withdrawn by pump

   10. The estimated amount of groundwater withdrawn each year:  
       all water for livestock and domestic use

   11. The log of formations encountered in the drilling of each well if available:  
       none

   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: Dec. 27, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Appropirator.
Notice of Completion of Groundwater Appropriation by Means of a Well
(Under Chapter 237, Montana Session Laws, 1961)

Edith Donisthorpe Soden, Owner
Stanford, Montana, Address

Driller: J. Wissmann, Address: Deatch

Date of Notice of Appropriation of Groundwater: July
Date well started: July
Date completed: July

Type of well: (dug, driven, bored or drilled)
Equipment Used: (Cham, drill, other)

Water Use: Domestic ☐ Municipal ☐ Other ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Stock ☐

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

<table>
<thead>
<tr>
<th>Size of Drill Bit</th>
<th>Size and Weight of Rod</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0</td>
<td>62</td>
<td>Gal</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 12 feet.

Shut-in Pressure for Flowing Well: ____________

Pumping Water Level: ____________ gal. per minute.

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

How Tested: ____________

Remarks: (Gravel packing, cementing, packers, 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: J. Wissmann

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.

8329
State of Montana,
County of Fergus,

Filed ..........All 8, 1963
at 10:25 A.M.

Mary [Redacted]
County Clerk and Recorder
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Albino Anderson
   (Name of Appropriator)
   of 109 West Montana Loma
   (Address)
   Lewistown
   (Town)
   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: for house and stock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: about 1928; use has been continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 12 gallons per minute

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

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

7. The date of commencement and completion of the construction of the well, wells, or other work for withdrawal of groundwater: about 1928

8. The depth of water table: 12 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: 8 inch hole, 40 foot deep

10. The estimated amount of groundwater withdrawn each year: 450,000 gallons

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 Albino Anderson
Date 12-30-63

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

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

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

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

1. Raymond Stoneman, et al.
2. The beneficial use on which the claim is based, Household & Garden Irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been, 1918 Continuously 1950 Continuously
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1918 Well 12 Gallons P.M. 1950 Well 10 Gallons P.M.
5. If used for irrigation, give the address and description of the lands to which water has been applied and name of the owner thereof Garden & Lawn
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 1918 No exact dates, 1950 March Feb
8. The depth of water table 20 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 1918 N.F. diameter 10 ft. deep 1950 N.F. diameter 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 Sand & Gravel
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 Raymond Stoneman Date 12/20/63

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

(Name of Appropriator) (Address) (Town)

County of _______________________________ State of _______________________________

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

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

3. The date or approximate date of earliest beneficial use, and how continuous the use has been.

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

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

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

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

8. The depth of water table.

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

10. The estimated amount of groundwater withdrawn each year.

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

12. Such other information 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.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

KENNETH AUSTINEN
(Name of Appropriator) of
Christina (Address) (Town)

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

stock water and domestic use

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

approximately 1940 - continuously

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

full capacity of 1½ inch pipe

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

by pump

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

approximately 1940

8. The depth of water table

50 feet

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

deep well pump

10. The estimated amount of groundwater withdrawn each year

all water used at house and domestic purposes and for stock water

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

unknown

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

none

Signature of Owner

Date December 12, 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, -a 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. (Name of Approporator) of (Address) in (Town) in 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

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

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied, 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: Deep well, jet electric pump about 1/2 HP.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: July 1962 - July 1962

8. The depth of water table: 49 feet well water now 12 feet from surface

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

10. The estimated amount of groundwater withdrawn each year: 4,256,000

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: None

Signature of Owner:

Date: 1/1/1962

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 Missouri,
County of St. Louis.

DEC 7 1963

F.D. 19
at 11:30 o'clock A.M.

MAY ELLIOTT
County Clerk and Recorder
<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>
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<td>Continental Oil Company</td>
<td>Water Rights</td>
<td>1114</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Interstate Oil Company</td>
<td>Water Rights</td>
<td>1116</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Interstate Oil Company</td>
<td>Water Rights</td>
<td>1118</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Interstate Oil Company</td>
<td>Water Rights</td>
<td>1120</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Individual family</td>
<td>Water Rights</td>
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<td></td>
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<tr>
<td>19</td>
<td>Individual family</td>
<td>Water Rights</td>
<td>1112</td>
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<tr>
<td>22</td>
<td>Standard Oil Company</td>
<td>Water Rights</td>
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<td></td>
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<tr>
<td>23</td>
<td>Standard Oil Company</td>
<td>Water Rights</td>
<td>1114</td>
<td></td>
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<tr>
<td>24</td>
<td>Standard Oil Company</td>
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<td>Water Rights</td>
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<td>Water Rights</td>
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<td>29</td>
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<td>Standard Oil Company</td>
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County: Ferguson
Twp: 15
Rge: 50

Remarks:
MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Butte, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td></td>
</tr>
<tr>
<td>Date Started</td>
<td></td>
</tr>
<tr>
<td>Date Completed</td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td></td>
</tr>
<tr>
<td>Type of well</td>
<td></td>
</tr>
<tr>
<td>Equipment used</td>
<td></td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic</td>
</tr>
<tr>
<td></td>
<td>Municipal</td>
</tr>
<tr>
<td></td>
<td>Stock</td>
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<td>Irrigation</td>
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<tr>
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<td>Industrial</td>
</tr>
<tr>
<td></td>
<td>Drainage</td>
</tr>
<tr>
<td></td>
<td>Other</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
</tr>
<tr>
<td></td>
<td>Type</td>
</tr>
<tr>
<td></td>
<td>Size</td>
</tr>
<tr>
<td>Perforated or Screened</td>
<td>ft. to ft.</td>
</tr>
<tr>
<td></td>
<td>Type</td>
</tr>
<tr>
<td></td>
<td>Size</td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>feet</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb./sq. in. on (date)</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>feet</td>
</tr>
<tr>
<td>How tested:</td>
<td></td>
</tr>
<tr>
<td>Length of test</td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td></td>
</tr>
</tbody>
</table>

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

(Over)
Horse Bench No. 3 Log

<table>
<thead>
<tr>
<th>Interval</th>
<th>Description</th>
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<tbody>
<tr>
<td>1-84</td>
<td>Surface soil and streaks of gravel</td>
</tr>
<tr>
<td>84-126</td>
<td>Dark shale</td>
</tr>
<tr>
<td>126-130</td>
<td>Shells and light clayey soft sandy shale</td>
</tr>
<tr>
<td>130-132</td>
<td>Lime and pepper sand, streaks of shale and shells</td>
</tr>
<tr>
<td>132-135</td>
<td>Light clayey sand</td>
</tr>
<tr>
<td>135-155</td>
<td>Gray clayey shale and streaks of sand and coal</td>
</tr>
<tr>
<td>155-170</td>
<td>Medium hard gray sand</td>
</tr>
<tr>
<td>170-192</td>
<td>Medium soft gray sand, medium coarse, hard streaks</td>
</tr>
<tr>
<td>192-193</td>
<td>Hard lime shell</td>
</tr>
<tr>
<td>193-200</td>
<td>Dark gray sand, streaks of firm shale and limo</td>
</tr>
<tr>
<td>200-245</td>
<td>Sand and shale, streaks of lime and coal</td>
</tr>
<tr>
<td>245-260</td>
<td>Dark shale and oyster shells, coal</td>
</tr>
<tr>
<td>260-270</td>
<td>Various colored shale and streaks of coal</td>
</tr>
<tr>
<td>270-330</td>
<td>Soft gray shale and streaks of coal and sand</td>
</tr>
<tr>
<td>330-350</td>
<td>Firm gray shale and streaks of muddy shale</td>
</tr>
<tr>
<td>350-400</td>
<td>Various colored shales</td>
</tr>
<tr>
<td>400-420</td>
<td>Brown and gray muddy shale</td>
</tr>
<tr>
<td>420-460</td>
<td>Soft gray clayey shale, streaks of medium soft sand</td>
</tr>
<tr>
<td>460-472</td>
<td>Various colored shales</td>
</tr>
<tr>
<td>472-479</td>
<td>Soft gray sand</td>
</tr>
<tr>
<td>479-501</td>
<td>Soft gray and brown shale and coal streaks</td>
</tr>
<tr>
<td>501-540</td>
<td>Soft gray sand, some hard streaks</td>
</tr>
<tr>
<td>540-561</td>
<td>Firm dark gray and green shale</td>
</tr>
<tr>
<td>561-606</td>
<td>Soft gray sand, thin streaks of shale</td>
</tr>
<tr>
<td>606-608</td>
<td>Gray and brown shale</td>
</tr>
<tr>
<td>608-672</td>
<td>Gray sand</td>
</tr>
<tr>
<td>672-690</td>
<td>Various colored shales</td>
</tr>
<tr>
<td>690-720</td>
<td>Various colored shales</td>
</tr>
</tbody>
</table>

Run 656 feet of 4 1/2 in. 11 lb. casing. Halliburton cemented same with 58 sacks from 465 feet up. Cement perforated from 491 feet to 540 feet and from 600 to 605 feet and from 629 to 674 feet. Well flowing 15 gallons per minute.
**Horse Pond Well No. 1968**

Driller - Cochrall, Roy, Wescum.

Location - South side of northeast pasture; Township 19, Range 20, Section 36.

Size of hole - 5 inches

Size of casing - 6 inches ID

Depth of hole - 632 feet

Casing - 408 feet

Compressed - Yes

Rate of flow - 15 gals per minute.

| Location: Sec. 10 | T. | 19 | R. | 20 |

<table>
<thead>
<tr>
<th>Type of well</th>
<th>(Due, driven, bored, or drilled)</th>
<th>Equipment used</th>
<th>(Churn drill, rotary, others)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Water use: Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial</td>
<td>Drainage</td>
<td>Other:</td>
<td></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>Casing:</th>
<th>ft. to ft.</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
</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>Ft. to Ft.</th>
<th>Ft. to Ft.</th>
</tr>
</thead>
</table>

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(over)</td>
</tr>
</tbody>
</table>
# MONTANA BUREAU OF MINES AND GEOLOGY

**Butte, Montana**

**WATER WELL LOG**

<table>
<thead>
<tr>
<th>Owner: Peerless Oil &amp; Gas Company</th>
<th>Address: 1670 Denver Club Bldg. Denver 2, Colorado</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller: Roy Cottrell</td>
<td>Address: Montana</td>
</tr>
<tr>
<td>Date Started:</td>
<td>Date Completed: 1948</td>
</tr>
<tr>
<td>Location: Sec. 10 T. 19 R. 20 1/4 sec. Swng.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>(Drill, driven, bored, or drilled)</td>
</tr>
<tr>
<td>Municipal</td>
<td>(Churn drill, rotary, other)</td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
</tr>
<tr>
<td>Stock</td>
<td></td>
</tr>
<tr>
<td>Irrigation</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>Ft. to</th>
<th>Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of screen or perforations:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

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

(over)
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: MONTANA RANCH DIVISION
Address: BUTTE, MONTANA

Driller: ROY COATRIDGE
Address: MONTANA

Date Started: 1946
Date Completed: 1946

Location: Sec. 11 T. 19 R. 20 W. 1/4 sec. 4, SE. 4

Type of well: (Dug, driven, bored, or drilled)

Equipment used: (Chain drill, rotary, other)

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

Industrial [ ] Drainage [ ] Other: [ ]

Casing: ft. to ft. Type: Size:

Perforated or Screened: Ft. to Ft. to Ft.

Type of screen or perforations:

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

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

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

How tested: [ ]

Length of test: [ ]

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

(over)
Kansas Rough Well No. 6 - 1945

Driller - Cottrell, Roy, Montana.
Location - Meadow pasture north of Cottonwood Cattle on farms line, furnishing water to three pastures; Township 19, Range 20, Section 11.

Size of hole - 7 inches
Size of casing - 1 inch ID
Depth of hole - 550 feet
Case - 212 feet
Undrilled - Yes
Rate of flow - 25 gals. per minute.
State of Montana
County of Fergus
County Clerk and Recorder

Filed: May 3, 1960 at 3:00 o'clock P.M.
# MONTANA BUREAU OF MINES AND GEOLOGY

**Butte, Montana**

## WATER WELL LOG

<table>
<thead>
<tr>
<th>WYCANA RANCH DIVISION</th>
<th>Address</th>
<th>Peerless Oil &amp; Gas Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>F. L. Ferguson</td>
<td>Roundup, Montana</td>
<td>1670 Denver Club Bldg.</td>
</tr>
<tr>
<td>Date Started</td>
<td>Date Completed</td>
<td>August 6, 1953</td>
</tr>
<tr>
<td>Location: Sec. 13, T 19N R. 20E sec. 34 1/4 sec.</td>
<td>Set Set</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
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<tbody>
<tr>
<td>(Dug, driven, bored, or drilled)</td>
<td>(Churn drill, rotary, other)</td>
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<tr>
<th>Water use:</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial</td>
<td></td>
<td>Drainage</td>
<td>Other:</td>
<td></td>
</tr>
</tbody>
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<th>Casing: ft. to ft.</th>
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<th>Size</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Perforated or Screened: Ft. to Ft.</td>
</tr>
</tbody>
</table>

| Static Water level, for non-flowing well: feet. |
| Shut-in pressure, for flowing well: lb./sq. in. cm. (date) |
| Pumping water level: feet at gal. per min. |
| How tested: |
| Length of test: |
| Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off) |

(over)
F. L. Ferguson,
1104 First St. W.,
Roundup, Montana.

Syracuse Cattle Company Horse Ranch water well location:
Sec. 13, T. 19, R 10 E.

Log - Well No. 14

0 - 3 surface
3 - 10 sand
10 - 15 yellow clay
15 - 20 boulders and gravel
20 - 30 gravel
30 - 37 hard sand water
37 - 45 brown shale
45 - 53 blue sandy shale
63 - 75 light blue sandy shale
75 - 100 brown shale
100 - 135 blue and brown shale and marine fossils
135 - 150 sandy shale with breakers of sand
150 - 170 sandy water
170 - 195 light blue shale
185 - 215 soap stone and light blue shale
215 - 225 sand water
225 - 230 light blue shale
250 - 275 brown shale sand streaks
275 - 280 hard sandy shale
280 - 295 soft sand more water
295 - 300 soft blue shale
300 - 310 hard dark sand
310 - 315 hard sand
315 - 325 blue shale 3 ft. coal
325 - 335 light blue sandy shale
335 - 400 sandy shale
400 - 420 porous sand
420 - 430 hard sandy shale
430 - 450 light blue sandy shale
450 - 450 soft porous sand water
450 - 465 hard sandy shale
465 - 480 porous sand
480 - 500 porous sand water

Set 65 ft. of 7 in. casing and cemented it with 20 sacks of cement. Set 495 ft. of 6 in. F. D. casing 5 ft. off the bottom.
Slot perforated 41 in casing from 130 ft. to 170 ft., 215 ft. to 255 ft.,
290 ft. to 310 ft. and from 445 ft. to 485 ft. The well was flowing
10 Gal per minute at the time of completion.

F. L. Ferguson
F. L. Ferguson, Millner
Aug. 6, 1953
Date of completion
**WATER WELL LOG**

**Owner:** Peerless Oil & Gases Company, Wytana Ranch Division

**Address:** Denver Club Bldg., Denver, Colorado

**Driller:** Frank Labert, deceased

**Address:** Lewistown, Montana

**Date Started:** 1948

**Date Completed:**

**Location:** Sec. 19 T. 19 R 20 W 1/4, SW 1/4

<table>
<thead>
<tr>
<th>Type of Well</th>
<th>Equipment Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>Lumber drill, rotary, etc.</td>
</tr>
<tr>
<td>Municipal</td>
<td></td>
</tr>
<tr>
<td>Stock</td>
<td></td>
</tr>
<tr>
<td>Irrigation</td>
<td></td>
</tr>
</tbody>
</table>

**Casing:**

- **Type:**
- **Size:**
- **Length:**

**Perforated or Screened:**

- **Type:**
- **Size:**
- **Length:**

**Static Water Level:**

- **Date:**

**Shut-in Pressure:**

- **Date:**

**Pumping Water Level:**

- **Date:**

**Remarks:**

- **Gravel packing, cementing, packers, type of shut-off, depth of shut-off**

(over)
Horse Ranch Well No. 1 - 1949

Driller - Frank Labert, Lovistown, deceased.

Location - In meadow pasture north of Cottonwood Coalee.
   Township 19, Range 20, Section 15.

Size of hole - 5 inches
Size of casing - 4 inches ID
Depth of hole - 550 feet
Case - 314 feet
Cemented - No - brine shoe.
Rate of flow - 15 gpm. per minute.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. (Name of Appropriator) (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.

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 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.

8. The depth of water table.

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

10. The estimated amount of groundwater withdrawn each year.

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

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

Signature of Owner: ________________
Date: ________________

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the 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. EDITH SUEDE, formerly Edith Boehler, of Stanford, Judith Basin, 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 water

3. Date or approximate date of earliest beneficial use, and how continuous the use has been: 2 springs - 1913 - continually

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

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: natural flow

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

8. The depth of water table: surface

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

10. The estimated amount of groundwater withdrawn each year: all springs flow

11. The log of formations encountered in the drilling of each well if available: none

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: springs have been in use for many years - dug out and developed

Signature of Owner:

Date: Dec. 27, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Appropriator.
Dec 27, 1937

[Signature]

County Judge and Commissioner

2:45 PM
WATER WELL LOG

Owner: Montana Oil & Gas Company
Ranch Division: W. L. Livingston
Address: 1670 Denver Club Bldg., Denver, Colorado

Driller: W. L. Livingston
Address:

Date Started: 
Date Completed: 

Location: Sec. 23 T. 19 R. 20, W. 1/4 sec. 

Type of well: 
Equipment used: 

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

Casing: ft. to ft. Type: Size: 
Casing: ft. to ft. Type: Size: 
Casing: ft. to ft. Type: Size: 

Perforated or Screened: Ft. to Ft. Ft. to Ft. 

Type of screen or perforations: 
Static Water level: 'or non-flowing well: 
Shut-in pressure, for flowing well: 
(date) 
Pumping water level: feet. 

How tested: 
Length of test: 

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

(over)
<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-7</td>
<td>Sandy soil</td>
</tr>
<tr>
<td>7-35</td>
<td>Brown &amp; grey clayey silt</td>
</tr>
<tr>
<td>35-60</td>
<td>Grey silt</td>
</tr>
<tr>
<td>60-100</td>
<td>Grey silt with streaks of mud</td>
</tr>
<tr>
<td>100-170</td>
<td>Grey mud &amp; silt with streaks of coal</td>
</tr>
<tr>
<td>170-200</td>
<td>Sand &amp; silt with streaks of silt</td>
</tr>
<tr>
<td>200-231</td>
<td>Blue &amp; grey silt</td>
</tr>
<tr>
<td>231-260</td>
<td>Soft clayey silt</td>
</tr>
<tr>
<td>260-290</td>
<td>Soft grey silt with streaks of sand</td>
</tr>
<tr>
<td>290-345</td>
<td>Soft grey silt (well started flowing at 6 gal per minute)</td>
</tr>
<tr>
<td>345-405</td>
<td>Medium to hard sand</td>
</tr>
<tr>
<td>405-425</td>
<td>Soft grey sand (increased water to 50 gal per minute)</td>
</tr>
<tr>
<td>425-450</td>
<td>Grey silt with streaks of silt</td>
</tr>
</tbody>
</table>

Stopped at 21 feet and ran 150 feet of 6 5/8" J. W. 8 round thread casing and cemented same with 20 sacks of cement and got return on cement. Used 4 1/8" back pressure valve shoe on 8" casing. Liner from 197 feet to 435 feet. Liner perforated from 245 feet to 315 feet, and from 345 feet to 435 feet. Landed 6 5/8" casing so that the top collar is 6 feet below the surface of the ground. Finished well by digging a 6 foot cellar and installing 6 b/d to 2 inch wedge and 2 inch gate valve.