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

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

| **Date of Notice of appropriation of groundwater** | Nov. 22, 1966 |
| **Date well started** | Dec. 1966 |
| **Date completed** | Nov. 27, 1966 |

**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.

<table>
<thead>
<tr>
<th><strong>Size and Weight of Casing</strong></th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th><strong>Type of Casing</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>9 1/2&quot;</td>
<td>22</td>
<td>82</td>
<td>Cemented</td>
</tr>
<tr>
<td>6 1/2&quot;</td>
<td>22</td>
<td>82</td>
<td>Cemented</td>
</tr>
<tr>
<td>4 1/2&quot;</td>
<td>152</td>
<td>284</td>
<td>Regular</td>
</tr>
</tbody>
</table>

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

**Shut-in Pressure for Flowing Well:** 40 ft

**Pumping Water Level:**

* at 40 ft.

**Discharge in gal. per min. of flowing well:** 25 gal.

**Remarks:** Gravel packing, cementing, etc. 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, tissue copy to be retained by driller.**

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
STATE OF MONTANA
County of Petroleum

Filed DECEMBER 9, 1969

Perma Oil Limited

By

2nd. Asst. Deputy
<table>
<thead>
<tr>
<th>Water Well Log</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Owner:</strong> E. R. Sawyer</td>
</tr>
<tr>
<td><strong>Driller:</strong> L. D. Ferguson</td>
</tr>
<tr>
<td><strong>Date Started:</strong> Oct 14, 1960</td>
</tr>
<tr>
<td><strong>Location:</strong> Sec. 3, T. 14, R. 28, 1/4 sec.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Wild</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment used</td>
<td>Churn</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water use:</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drainage</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>1 ft. to 18 ft.</th>
<th>Type:</th>
<th>Other:</th>
<th>Size: 8 1/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>1 ft. to 10 ft.</td>
<td>Type:</td>
<td>Other:</td>
<td>Size: 4 1/4</td>
</tr>
<tr>
<td>Casing:</td>
<td></td>
<td>Type:</td>
<td>Other:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>Ft. to Ft.</th>
<th>Ft. to 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>75 lb./sq. in. on:</th>
</tr>
</thead>
<tbody>
<tr>
<td>-------------------------------------</td>
<td>Oct 14, 1960</td>
</tr>
</tbody>
</table>

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

| How tested: | |
|-------------||

| Length of test: | |
|----------------||

<table>
<thead>
<tr>
<th>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remitted with 8 ft. water (4 1/4).</td>
</tr>
</tbody>
</table>

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>18</td>
</tr>
<tr>
<td>18</td>
<td>45</td>
</tr>
<tr>
<td>45</td>
<td>70</td>
</tr>
<tr>
<td>70</td>
<td>87</td>
</tr>
<tr>
<td>87</td>
<td>99</td>
</tr>
<tr>
<td>99</td>
<td>119</td>
</tr>
<tr>
<td>119</td>
<td>121</td>
</tr>
<tr>
<td>119</td>
<td>125</td>
</tr>
</tbody>
</table>

Log of Well

STATE OF MONTANA

18968

Filed [illegible] 1860

[Signature] County Recorder

[Signature]
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

Raymond H. Kind, of Winerece
County of: Coeur d'Alene
State of: Montana

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

1. Name of Appropriator
2. The beneficial use on which the claim is based
3. Date or approximate date of earliest beneficial use; and how continuous the use has been
4. The amount of groundwater claimed (in miner's inches or gallons per minute)
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
8. The depth of water table
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
10. The estimated amount of groundwater withdrawn each year
11. The log of formations encountered in the drilling of each well if available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner: Raymond Kind
Date: 12-14-63

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 QuadriPLICATE for the Appropriator.
STATE OF MONTANA,
County of Petroleum.

Filed DEC 19 1963.

at 12:35 o'clock P.M.

Mary L. Singel
Director of Records.

22333 File no 192
Red

Deputy
Montana Bureau of Mines and Geology
Butte, Montana

Water Well Log

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>Raymond H. Kindt</td>
</tr>
<tr>
<td>Address</td>
<td>Butte, Montana</td>
</tr>
<tr>
<td>Driller</td>
<td>George C. Singley</td>
</tr>
<tr>
<td>Address</td>
<td>Butte, Montana</td>
</tr>
<tr>
<td>Date Started</td>
<td>October 20, 1951</td>
</tr>
<tr>
<td>Date Completed</td>
<td>October 25, 1951</td>
</tr>
</tbody>
</table>

Location: Sec. 4, T. 14, R. 28 ½, sec. NW ¼, NE ¼

Type of well: Drilled

Type of Use:
- Domestic
- Municipal
- Stock
- Irrigation
- Industrial
- Drainage
- Other

Casing: 1 ft to 10 ft
Perforated or Screened: 140 ft to 170 ft

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

Shut-in pressure, for flowing well: 0 lb./sq. in. on: 10-22-51 (amt)

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

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

Sealed with tacker

(over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>Coneoil</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>10</td>
<td>Sand Gravel</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>30</td>
<td>Shale</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>45</td>
<td>Sandstone</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>115</td>
<td>Shale</td>
<td></td>
</tr>
<tr>
<td>115</td>
<td>120</td>
<td>Sandstone</td>
<td></td>
</tr>
<tr>
<td>120</td>
<td>140</td>
<td>Sand Shale</td>
<td></td>
</tr>
<tr>
<td>140</td>
<td>150</td>
<td>Sandrock</td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>180</td>
<td>Sandstone Water</td>
<td></td>
</tr>
</tbody>
</table>
STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

DEC 23 1963

R E C E I V E D

Raymond H. Child

T.M. Sandaker

(Name of Appropriator)

(Address)

County of Petroleum State of Montana

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

2. The beneficial use on which the claim is based

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

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

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

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

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

8. The depth of water table

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

10. The estimated amount of groundwater withdrawn each year

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

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

Signature of Owner

Date

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

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

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

DEC 19 1968
12:30 P.M.

Sheriff's Office

Deputy
ASSIGNMENT

State of Montana, }
County of Petroleum. )

KNOW ALL MEN BY THESE PRESENTS:

That I, Raymond H. Kindt, of Winnett, Montana, party of
the first part, for and in consideration of the sum of
One Dollar, and other valuable considerations, do hereby
sell, assign and set over to T. N. Sandaker, of Winnett,
Montana, the following:

That certain Water Well Log, dated and recorded on
Sept. 15, 1961, Serial No. 19615, of the records of the
County Clerk and Recorder, or Director of Records, of
Petroleum County, Montana, covering the log of a well
drilled by use of Rotary Equipment on the NW\SW Sec.5,
in Township 14 North, Range 28 East, same being on lands
and premises owned by the said T. N. Sandaker, party of
the second part above mentioned.

Dated December 29th 1961.

Raymond H. Kindt

State of Montana, }
County of Petroleum. )

On this 29th day of December, 1961,
before me, the undersigned, a Notary Public for the State of
Montana, personally appeared Raymond H. Kindt, known to me to
be the person who executed the foregoing instrument, and
acknowledged to me that he executed the same.

IN WITNESS WHEREOF I have hereunto set my hand and affixed
my Notarial Seal the day and year in this certificate above
written.

Notary Public for the State of Montana
Residing at Winnett, Montana
By commission expires Aug. 1963.
Form No. 18
8-60

<table>
<thead>
<tr>
<th>County</th>
<th>T. 14</th>
<th>R. 28</th>
</tr>
</thead>
</table>

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

STATE ENGINEER

Owner: Raymond H. Kindt
Address: Butte, Montana

Driller: George C. Stimson
Address: Lewistown, Montana

Date Started: August 26, 1961
Date Completed: August 27, 1961

Location: Sec. 5 T. 14 R. 28 1/4 sec. NE 3rd

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Rotary</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Dug, driven, bored, or drilled)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water use:</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
<th>Industrial</th>
<th>Drainage</th>
<th>Other</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>0 ft. to 181 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. 115 to ft. 150.</th>
<th>Ft. to ft.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Type of screen or perforations</th>
<th>51sts</th>
</tr>
</thead>
</table>

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

Shut-in pressure, for flowing well: 6 lb./sq. in. on: August 27, 1961 (site)

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>0</td>
<td>Top soil</td>
</tr>
<tr>
<td>1 - 15</td>
<td>Clay and gravel</td>
</tr>
<tr>
<td>15</td>
<td>Sand</td>
</tr>
<tr>
<td>90</td>
<td>Rock</td>
</tr>
<tr>
<td>95</td>
<td>Sand</td>
</tr>
<tr>
<td>115 - 145</td>
<td>Sandstone - 50.8 ft. per min.</td>
</tr>
<tr>
<td>145 - 1.1</td>
<td>Sandy sand</td>
</tr>
</tbody>
</table>

Log of Well
WATER WELL LOG

Owner: Jim Paulson & A.J. Bohn
Address: Kimmet, Montana
Driller: P.L. Ferguson
Address: Roundup, Montana
Date Started: November 3rd, 1957
Date Completed: Nov. 6th, 1957
Location: Sec. 6 T. 14 R. 28 1/4 sec.

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

<table>
<thead>
<tr>
<th>Water use</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial</td>
<td></td>
<td>Drainage</td>
<td></td>
<td>Other:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>0</th>
<th>ft. to</th>
<th>53</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well:</th>
<th>50 feet.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Shut-in pressure, for flowing well:</th>
<th>None</th>
<th>lb/sq. in. on:</th>
<th>(date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pumping water level:</td>
<td>20</td>
<td>feet at</td>
<td>15</td>
</tr>
<tr>
<td>How tested:</td>
<td>240</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of test:</td>
<td>10 Minutes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>7 Black Soil</td>
</tr>
<tr>
<td>7</td>
<td>22 Gravel little water</td>
</tr>
<tr>
<td>22</td>
<td>43 Miss Shale</td>
</tr>
<tr>
<td>43</td>
<td>52 Eagle Sand water</td>
</tr>
<tr>
<td>52</td>
<td>53 Miss Shale</td>
</tr>
</tbody>
</table>
Form No. 18

Owner: Jim Poulton  Address: Winnetta, Montana
Driller: George G. Singleton  Address: Lewistown, Montana
Date Started: August 1, 1961  Date Completed: August 4, 1961
Location: Sec. 8 T. 14 R. 28 ½ sec. NW ¼

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

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

Above ground:
- Casing: 1 ft. to 260 ft. Type S & S Size 6½
- Casing: [ ] ft. to [ ] ft. Type [ ] Size [ ]
- Casing: [ ] ft. to [ ] ft. Type [ ] Size [ ]

Perforated or Screened: Ft. 235 to Ft. 260 Ft. [ ] to Ft. [ ]

Type of screen or perforations: [ ] slots

Static Water level, for non-flowing well: 50 feet.
Shut-in pressure, for flowing well: [ ] lb./sq. in. on: [ ]

Pumping water level: 100 feet at 20 gal. per min.

How tested: Bailing

Length of test: 2 hr.

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

*Sealed with rubber packers*

(over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td></td>
<td>Topsoil</td>
</tr>
<tr>
<td>1</td>
<td>11</td>
<td></td>
<td>Sand Gravel</td>
</tr>
<tr>
<td>11</td>
<td>21</td>
<td></td>
<td>Yellow clay</td>
</tr>
<tr>
<td>21</td>
<td>24</td>
<td></td>
<td>Bentonite</td>
</tr>
<tr>
<td>24</td>
<td>164</td>
<td></td>
<td>Grey shale</td>
</tr>
<tr>
<td>164</td>
<td>166</td>
<td></td>
<td>Bentonite</td>
</tr>
<tr>
<td>166</td>
<td>200</td>
<td></td>
<td>Black shale</td>
</tr>
<tr>
<td>200</td>
<td>230</td>
<td></td>
<td>Grey Bentonite and Pebbles</td>
</tr>
<tr>
<td>230</td>
<td>239</td>
<td></td>
<td>Sandstone</td>
</tr>
<tr>
<td>239</td>
<td>240</td>
<td></td>
<td>Hard white silicate</td>
</tr>
<tr>
<td>240</td>
<td>260</td>
<td></td>
<td>Sandstone WATER 239'–260'</td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Sellar Grow
Address: Minnott, Montana

Driller: George O. Singsley
Address: Lewistown, Montana

Date of Notice of appropriation of groundwater: None

Date well started: Dec. 18, 1965
Date completed: Dec. 20, 1965

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.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Strata and Weights of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-5/8&quot;</td>
<td></td>
<td>0</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>4-1/2&quot;</td>
<td></td>
<td>17</td>
<td>84</td>
<td></td>
</tr>
<tr>
<td>3-7/8&quot;</td>
<td></td>
<td>84</td>
<td>165</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 0 feet
Shut-in Pressure for Flowing Well: 20
Pumping Water Level: 0 feet
Discharge in gal. per min. of flowing well: 35

How Tested: Bailing
Length of Test: 1 hr

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

Sealed with: packer at 84 ft, Cemented

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

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

Driller's License Number

Driller's Signature
STATE OF MONTANA,
County of Petroleum,

Filed DEC 28 1965

By

Sunny L. Beryl

DEP'T
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

Owner: Anna Salt Property: Address: Winnett, Montana
Driller: George Q. Singley Address: Lewistown, Montana

Date of Notice of Appropriation of groundwater: None
Date well started: June 24, 1972 Date completed: June 26, 1972

Type of well Drilled: Rotary
(Dug, driven, bored or drilled) (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>Depth (Ft)</th>
<th>Size and Weight of Casing</th>
<th>From (Ft)</th>
<th>To (Ft)</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 7/8</td>
<td>0</td>
<td>0</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>5 5/8</td>
<td>20</td>
<td>63</td>
<td>97</td>
<td></td>
</tr>
<tr>
<td>4 3/4</td>
<td>63</td>
<td>63</td>
<td>97</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: None
Shut-in Pressure for Flowing Well: 30
Pumping Water Level: None
Discharge in gal. per min. of flowing well: 150
How Tested: Measured
Length of Test: 1, 1/2 min.
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).

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

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

Driller’s License Number
Driller’s Signature

5/140
STATE OF MONTANA,
County of Petroleum,

Filed AUG 1 1 1977
at 11:00 o'clock A.M.

Director of Records.

Deputy
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Harvey Cormac  
Address: Kimmet, Montana

Driller: Livingston-Boles  
Address: Kimmet, Montana

Date Started: September 17, 1948  
Date Completed: September 25, 1948

Location: Sec. 18  
T. 14 N.  
R. 28 W. 4 sec.

Type of well: Drilled  
Equipment used: Rotary

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

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. to ft. 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)

Well tested 15 gallons per minute without casing; ran 324 feet 6 inch O. D. casing
with 56 feet perforated on bottom; shale basket at 240 feet; gravel packed around casing;
bailed hole clean; well bailed 5 gallons per minute; ran 221 feet 1½ inch galvanized

tubing and rode; not cylinder at 230 feet with one joint 2½ feet below cylinder.

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0</td>
<td>To 25</td>
</tr>
<tr>
<td>25</td>
<td>45</td>
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<td>45</td>
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<tr>
<td>257</td>
<td>314</td>
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<tr>
<td>314</td>
<td>326</td>
</tr>
</tbody>
</table>
**WATER WELL LOG**

**Owner:** Joe K. Gerolphal  
**Address:** Winnell, Montana

**Driller:** Gordon Scammon  
**Address:** Roundup, Montana

**Date Started:** June 14, 1958  
**Date Completed:** June 17, 1958

**Location:** Sec. 19, T. 14, R. 28, W. 4 sec. Northwest

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

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

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

**Casing:**  
- 0 ft. to 95 ft.  
- Type: threaded  
- Size: 6 inch

**Perforated or Screen:**  
- 30 ft. to 35 ft.  
- 80 ft. to 85 ft.  
- Type: slotted

**Static Water level, for non-flowing well:** 17 ft. from top of ground

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

**Pumping water level:** feet at  
- 9 1/2 gal per min.

**How tested:** Bailor

**Length of test:** one hour

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

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(over)
### Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
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<td>6</td>
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<tr>
<td>6</td>
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<td>85</td>
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</table>

---

**Filing Date:** 1-20

**Recorded:** 2-5

**File:** 16651

**County:** Powell

**State:** Wyoming

**County Recorder:** E. W. M. Parker
I, Helena Incorprlrlr HiKurel <

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN

Declaralion o! Vested Groundwater Bights

(Chapter 237, Montana Session Laws, 1961)

(Name of Appropriates) (Address) (Town)
County of...P..rtrolaim State of XcA.trMM

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

1. The beneficial use on which the claim is based
2. The date or approximate date of earliest beneficial use; and how continuous the use has been.
3. Dated and signed the annexed map or plan showing the location of each well and other works for withdrawal of such water from the ground
4. The means of withdrawing such water from the ground and the estimated amount of water withdrawn each year or such other period as may be specified.
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 log of formations encountered in the drilling of each well. If available.
7. The estimated amount of groundwater claimed (in miner's inches or gallons per minute).
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 withdrawal of groundwater.
10. The estimated amount of groundwater withdrawn each year as to the use of the water.

Date: [Signature of Owner]

Date: [Date]

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

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

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

Kemeth W. Kelton
(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
   Source: water and agricultural use.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   Date: approx. 40 years
   Continuance: approx. 1937.

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
   Artesian well: 10 gal. per minute
   Drilled well: 5 gal. per minute.

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

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

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

8. The depth of water table
   Artesian: 150 ft.
   Drilled well: approx. 15 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
   Artesian well: approx. 150 ft.
   Drilled well: 10 ft.

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

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

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: William W. Kelton
Date: December 31, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
STATE OF NEW YORK
County of Delaware

Filed: DEC 31 1903
at Yonkers, N.Y.

George L. Dingr

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

STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: Natural flow (unknown)
Owner: Kenneth Walter Address: Kimmet, Montana
Contractor (if any): none
Address of Contractor: none
Date Started: unknown Date Completed: unknown

Describe means of obtaining groundwater without a well "as by
sub-irrigation and other natural processes". Include depth to
water when applicable. this water is a natural flow of springs
for approximately one and one half mile in Flatwillow Cr.
Used for irrigation and stock water according to seasons

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

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

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the
works are located.

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

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

Signature of Owner: Kenneth Walter

Date: December 31, 1963
STATE OF MONTANA,
County of Petroleum, 

Filed: DECEMBER 1963 19
at 2:45 o'clock P.M.

[Signature]
Director of Records

[Signature]
Deputy
# WATER WELL LOG

<table>
<thead>
<tr>
<th>T14</th>
<th>R29</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Owner:** W. J. A. Mirth Kiehl  
**Address:** Winnett, Montana

**Driller:** Dale Miles  
**Address:** Winnett, Montana

**Date Started:** October 1966  
**Date Completed:** October 1966

**Location:** Sec. 29 T. 14 N. R. 29 W. 1/4 sec. 36 N. Montana

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
<th>Water use</th>
<th>Casing</th>
<th>Perforated or Screened</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled</td>
<td>Rotary</td>
<td>Domestic</td>
<td>5&quot;</td>
<td>105 ft to 105 ft</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Stock</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Irrigation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Type of screen or perforations:** Pipe

**Static Water level, for non-flowing well:**  
**Shut-in pressure, for flowing well:**  
**Pumping water level:** 105 feet at 15 gallons per minute

**How tested:** Drilled

**Length of test:** 1 hour then another hour a couple days later

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

---

(over)
Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 20</td>
<td>gravel</td>
</tr>
<tr>
<td>20 to 50</td>
<td>shale &amp; gravel</td>
</tr>
<tr>
<td>50 to 90</td>
<td>shale, blue</td>
</tr>
<tr>
<td>90 to 100</td>
<td>rock formation, white</td>
</tr>
<tr>
<td>100 to 150</td>
<td>gravel and a flowing well</td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Date of Appropriation of Groundwater: Natural Springs
Owner: William W. Walker
Address: Winnet, Montana

Contractor (if any): None
Address of Contractor: None

Date Started: Natural Springs
Date Completed: Natural Springs

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

NATURAL SPRING
RUNS TO SURFACE

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

STOCK WATER - Flow of water varied with each season. Used mostly in summer time.

Signature of Owner: William W. Walker
Date: December 31, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

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

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

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

1. Clinton R. Hassett of P.O. Box 234, Winnett
   (Name of Appropriator) (Address) (Town)
   County of Petroluma State of Montana
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

2. The beneficial use on which the claim is based is household-use, livestock water, and irrigation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been about 1915 and has been in continual use since that time.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 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 about 1 acre of garden and orchard in NE corner of SE Quarter of Sec. 28, block 14, R. 14 E. of the 6th P. of the 9th Meridian owned by Clinton R. Hassett.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. An electric pump is used; and well is located in SW Quarter of Sec. 28, block 14, R. 14 E. of the 6th P. of the 9th Meridian.

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

8. The depth of water table about seventeen 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. It is a dug well about 4 feet in diameter and 22 feet deep.

10. The estimated amount of groundwater withdrawn each year 300,000 gallons per year.

11. The log of formations encountered in the drilling of each well if available. Dug well encountered 5 feet of gravel, 10 feet of shale, and 7 feet of 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. There is none that I know of.

Signature of Owner

Date December 27, 1967

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: September 1956

Owner: Clinton R.净资产
Address: Winnet, Mont.

Contractor (if any): None
Address of Contractor:

Date Started: 1956
Date Completed: 1956

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

Cut and a basin cemented to deliver water to a pipe line. The depth of the basin is about three feet. The water flows by gravity only.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use. A supply pipe reduced to 3/4 inch from a 1 1/2 inch pipe carries enough water to supply a tenant-house and a sheep shed and barn. Overflow water is carried in a 4 inch pipe which flows continually and is used for irrigation of a garden and orchard during summer months; and discharged as waste water in winter.

Signature of Owner: Clinton R.净资产
Date: December 27, 1956

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

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

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

County of Petroleum,

Filed DEC 30 1963

at 9:30 c'clock A.M.

Denny L. Snyder

Registrar of Secrecy

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

Owner: Gordon Pataja
Address: Winnet, Montana

Driller: George O. Singley
Address: Lewistown, Montana

Date of Notice of Appropriation of Groundwater: None

Date well started: July 1, 1963
Date well completed: July 3, 1963

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

Water Use: Domestic
Municipal
Stock
Irrigation
Industrial
Drainage
Other

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 x 5/8</td>
<td></td>
<td>0</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td>4 x 5/4</td>
<td>4 1/2 ID-4 1/2 ID</td>
<td>120</td>
<td>137</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 70 feet

Shut-in Pressure for flowing well

Pumping Water Level: 110 feet at 15 gal. per minute

Discharge in gal, per min. of flowing well

How Tested: with air

Length of Test

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

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

Show exact depth of bottom.

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

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.
22095

STATE OF MONTANA,
County of Petroleum.

Filed SEP 3 1968

at 9:00 o'clock A.M.

Denny L. Dengel
County Recorder.

Dec. 2 68
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
Developed After January 1, 1962

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

This form to be prepared by contractor (if any), otherwise by the owner.
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.
Please answer all questions. If not applicable, so state, otherwise the form may be returned.

For Administrator's Use

File: 2796255
GW 1: 1915-21

Owner: John Doe
Box 1234, Billings, Montana
Address: 1234 Maple St, Billings, MT 59101
Contractor (if any): Jane Smith
Address of Contractor: 4567 Oak St, Billings, MT 59102
Date Started: 06/24/2022
Date Completed: 12/31/2022

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.)

2. Means of withdrawing water (gravity, pump, canal, etc.)

3. Depth of water table

4. Use of the water

5. Amount of groundwater claimed (in miner's inches or gallons per minute)

6. If used for irrigation, give number of acres and description of land

7. Estimate amount of water used each year

8. Months of year spring flows

Signature of Owner: John Doe
Date: 01/01/2023
County of Petroleum,

Filed: JUN 29, 1923

at 12:15 o'clock P.M.

Oscar Barlee
Director of Records.
## Groundwater Index

County: Petroleum  
Twp: 14N  
Rge: 29E

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>File No.</th>
<th>Remarks</th>
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<tbody>
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<td>H 18/149</td>
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<tr>
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<td>H. R. Kenzie, Jr. F.</td>
<td>CW 2</td>
<td>22372</td>
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<td>Agnus, Elden</td>
<td>CW H</td>
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<td>Hansen, Ernest H</td>
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<td>Damschen, Kenneth</td>
<td>CW 2</td>
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<tr>
<td>21</td>
<td></td>
<td>CW 2</td>
<td>27800</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>McSweeney, Leslie</td>
<td>H 15/149</td>
<td>88</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Hansen, Ernest</td>
<td>CW H</td>
<td>22345</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Thompson, Bron</td>
<td>CW 2</td>
<td>27887</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Damschen, Kenneth</td>
<td>CW 2</td>
<td>27802</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td></td>
<td>CW 2</td>
<td>27887</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td></td>
<td>CW 2</td>
<td>27801</td>
<td></td>
</tr>
</tbody>
</table>
Form No. 18

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner: Everett Moses</th>
<th>Address: Not y., Mont.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller: Wilson &amp; Dunson Drig. Co.</td>
<td>Address: Dry View, Mont.</td>
</tr>
<tr>
<td>Date Started: Mar. 15 61</td>
<td>Date Completed: Apr. 21 61</td>
</tr>
<tr>
<td>Location: Sec. 1 T. 14 R. 29 1/2 sec. W.6</td>
<td></td>
</tr>
</tbody>
</table>

Type of well Drilled: Rotary

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

Casing: 0 ft. to 6 ft. Type: 1 1/4 in. Size: 5" 1/2 in.
Casing: 0 ft. to 111 ft. Type: Lite Tiv. Size: 4" 3/8 in.
Casing: 111 ft. to ft. Type: Size:
Perforated or Screened: Ft. 28 to ft. Ft. 60 to ft. 20

Type of screen or perforations:

Static Water level, for non-flowing well: _______ feet.
Shut-in pressure, for flowing well: _______ lb./sq. in. on: _______

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

How tested: _______
Length of test: _______ hour

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

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>1</td>
<td>Surface Gumbo</td>
</tr>
<tr>
<td>1</td>
<td>20</td>
<td>25</td>
<td>Town Sand</td>
</tr>
<tr>
<td>20</td>
<td>50</td>
<td>50</td>
<td>Hard Clay &amp; Sand</td>
</tr>
<tr>
<td>50</td>
<td>60</td>
<td>60</td>
<td>Clays &amp; Claystone</td>
</tr>
<tr>
<td>60</td>
<td>70</td>
<td>70</td>
<td>Gray Sand</td>
</tr>
<tr>
<td>70</td>
<td>90</td>
<td>90</td>
<td>Silty Sand</td>
</tr>
<tr>
<td>90</td>
<td>111</td>
<td></td>
<td>Andy White &amp; Bentonite Layers</td>
</tr>
</tbody>
</table>

Log of Well
Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: July 1, 1915

Owner: Ida E. MacKenzie  Address: Faribault, Minnesota

Contractor (if any): none

Address of Contractor: none

Date Started: Same as above  Date Completed: Same as above

Describe means of obtaining groundwater without a well: "as by sub-irrigation and other natural processes". Include depth to water when applicable. natural spring, water at surface, used for livestock water.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent, estimate approximate lengths of periods of use. 5 gallons per minute, estimated, use continuous.

Signature of Owner: Ida E. MacKenzie

Date: 12/20/63

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

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

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

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

STATE ENGINEER

Alden Aasrud
(Name of Appropriator)

Winnett, (Address)

State of Montana

Petroleum State of Montana

County 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
   - a well drilled about spring of 1955

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   - 1955 crop season

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
   - about 55 gallons per minute
draining a well drilled in about 1928 and then obtained 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 owner thereof
   - watering of livestock and domestic purposes

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   - flowing well obtained a flowing well by deepening a shallow well previously drilled

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   - completed the well in about 1955 for use as flowing well

8. The depth of water table
   - 110 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
   - an artesian well four inch casing
       and 110 feet deep

10. The estimated amount of groundwater withdrawn each year
    - kept turned down so only the water used for domestic purposes and for watering stock is escaping

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
    - not known, except as above stated

Signature of Owner: Alden Aasrud

Date: Dec. 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, 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 to the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1957)

STATE ENGINEER

1. Ernest H. Hansen of \\
   (Name of Appropriator) \\
   (Address) \\
   (Town)

   County of Petroleum 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: well is used for domestic use, also for stockwater

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: April 1, 1957

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

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

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Commencement on April 1, 1957; approximate completion April 12, 1957

   8. The depth of water table: about 155 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: starts with six inch casing and tapers to three and one-half inches

   10. The estimated amount of groundwater withdrawn each year: not known

   11. The log of formations encountered in the drilling of each well if available: sand, gravel, blue shale, rock, blue shale, sandstone, 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:

   Signature of Owner: Ernest H. Hansen
   Date: August 22, 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.
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

Owner: Kenneth Damschen  Address: Winnett, Montana

Driller: George C. Singley  Address: Lewistown, Montana

Date of Notice of appropriation of groundwater: None

Date well started: April 24, 1969  Date completed: April 30, 1969

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.

<table>
<thead>
<tr>
<th>Depth (Feet)</th>
<th>Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-7/8</td>
<td></td>
<td>0</td>
<td>21</td>
</tr>
<tr>
<td>4-3/4</td>
<td></td>
<td>21</td>
<td>63</td>
</tr>
<tr>
<td>3-7/8</td>
<td></td>
<td>63</td>
<td>140</td>
</tr>
</tbody>
</table>

PERFORATIONS:

<table>
<thead>
<tr>
<th>Kind</th>
<th>Size</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Galv. 2&quot; Above</td>
<td>140</td>
<td>3&quot;X4&quot; SLOTS</td>
<td>105 140</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: None feet

Shut-In Pressure for flowing well: 5

Pumping Water Level: None feet at 0 gal. per minute

Discharge in gal. per min. of flowing well: 40

How Tested: Measured

Length of Test: 2 hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff) Sealed with packer and cement.

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

USE—If used for irrigation, industrial, urban or other. Explain, state number of acres and location of use (i.e.: Lot, Block and Addition).
**Notice of Completion of Groundwater Appropriation by Means of Well**

**DEVELOPED AFTER JANUARY 1, 1962**

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

**Owner:** Kenneth Darnelchen  
**Address:** Winnetz, Montana

**Driller:** George O. Singley  
**Address:** Lewistown, Montana

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

**Date well started:** May 1, 1969  
**Date completed:** May 2, 1969

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

**Water use:** Domestic  
**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.

### Log

<table>
<thead>
<tr>
<th>Top of Ground</th>
<th>No. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevation (ft)</td>
<td></td>
</tr>
<tr>
<td>Soil</td>
<td></td>
</tr>
<tr>
<td>Drift clay, sand, gravel</td>
<td></td>
</tr>
<tr>
<td>Blue Shale</td>
<td></td>
</tr>
<tr>
<td>Sandy Shale</td>
<td></td>
</tr>
<tr>
<td>Hard rock</td>
<td></td>
</tr>
<tr>
<td>Sandstone</td>
<td></td>
</tr>
<tr>
<td>Shale</td>
<td></td>
</tr>
<tr>
<td>Shale, Water</td>
<td></td>
</tr>
<tr>
<td>Hard rock</td>
<td></td>
</tr>
<tr>
<td>Sandy Shale</td>
<td></td>
</tr>
<tr>
<td>Hard rock</td>
<td></td>
</tr>
<tr>
<td>Shale</td>
<td></td>
</tr>
</tbody>
</table>

### Diagram

![Diagram](image)

- **Static Water Level for non-flowing well:** None
- **Shut-in Pressure for flowing well:** 5
- **Pumping Water Level:** None
- **Discharge in gal. per min. of flowing well:** 5
- **How Tested:** Measured
- **Length of Test:** 1 hr
- **Remarks:** (Gravel packing, cementing, packers, type of shutoff). Sealed with pecker-and-cement

**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).

---

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

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

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

Type of Well: Drilled  Equipment used: [Other]

Water use: Domestic  Municipal  Stock  Irrigation  Industrial  Drainage  Other

Casing: 0 ft. to 26 ft. Type: Steel  Size: 7"
Casing: 0 ft. to 575 ft. Type: Steel  Size: 4½"
Casing: 0 ft. to 2 ft. Type: [Other Size]
Perforated or Screened: 0 ft. to 2 ft. 245 ft. 440 ft. to 480 ft.
Type of screen or perforations: [Other]
Static Water level, for non-flowing well: 212 feet.
Shut-in pressure, for flowing well: [lb./sq. in. on]
Pumping water level: 400 feet at 5 gal. per min.

How tested: [Other]
Length of test: [Other]
Remarks: [Other]

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

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>8</td>
<td>Surface Sand</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>20</td>
<td>Sand</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>60</td>
<td>Black Shale</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>64</td>
<td>Bentonite</td>
</tr>
<tr>
<td></td>
<td>64</td>
<td>94</td>
<td>Silty Black Shale</td>
</tr>
<tr>
<td></td>
<td>94</td>
<td>97</td>
<td>Bentonite</td>
</tr>
<tr>
<td></td>
<td>97</td>
<td>146</td>
<td>Shale Black</td>
</tr>
<tr>
<td></td>
<td>146</td>
<td>148</td>
<td>Bentonite</td>
</tr>
<tr>
<td></td>
<td>148</td>
<td>166</td>
<td>Black Shale</td>
</tr>
<tr>
<td></td>
<td>166</td>
<td>170</td>
<td>Bentonite</td>
</tr>
<tr>
<td></td>
<td>170</td>
<td>325</td>
<td>Silty Black Shale</td>
</tr>
<tr>
<td></td>
<td>325</td>
<td>335</td>
<td>Silty Shale</td>
</tr>
<tr>
<td></td>
<td>335</td>
<td>375</td>
<td>Silty Sand (water)</td>
</tr>
<tr>
<td></td>
<td>375</td>
<td>411</td>
<td>Silty Shale</td>
</tr>
<tr>
<td></td>
<td>411</td>
<td>490</td>
<td>Silty Sand (water)</td>
</tr>
<tr>
<td></td>
<td>490</td>
<td>515</td>
<td>Black Shale</td>
</tr>
</tbody>
</table>

---

[6th Place Montana, 77th Street, Park County, MT]

[10th Place Montana, 77th Street, Park County, MT]

[9th Place Montana, 77th Street, Park County, MT]

[8th Place Montana, 77th Street, Park County, MT]

[7th Place Montana, 77th Street, Park County, MT]

[6th Place Montana, 77th Street, Park County, MT]

[5th Place Montana, 77th Street, Park County, MT]

[4th Place Montana, 77th Street, Park County, MT]

[3rd Place Montana, 77th Street, Park County, MT]

[2nd Place Montana, 77th Street, Park County, MT]

[1st Place Montana, 77th Street, Park County, MT]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Ernest Hansen
Minnetta

County of: Petroleum
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: Nov 27, 1960 Continuous since first use

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Commencement on Nov 12, 1960; completion Nov 27, 1960

8. The depth of water table: About 336 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: Four inch galvanized casing

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

11. The log of formations encountered in the drilling of each well if available: Top soil, Clay, gravel, sandy-clay-blue, hard rock, soft blue clay, sandy rock 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:

Nature of Owner: Ernest H. Hansen

Date: Dec 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, 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.

15488