### 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>0</td>
<td>9</td>
<td>Top silt</td>
</tr>
<tr>
<td>9</td>
<td>101</td>
<td></td>
<td>Gravels &amp; clay</td>
</tr>
<tr>
<td>101</td>
<td>105</td>
<td></td>
<td>Clay</td>
</tr>
<tr>
<td>105</td>
<td>107</td>
<td></td>
<td>Gravel dry</td>
</tr>
<tr>
<td>107</td>
<td>111</td>
<td></td>
<td>Clay</td>
</tr>
<tr>
<td>111</td>
<td>114</td>
<td></td>
<td>Gravel dry</td>
</tr>
<tr>
<td>114</td>
<td>118</td>
<td></td>
<td>Clay</td>
</tr>
<tr>
<td>118</td>
<td>120</td>
<td></td>
<td>Gravel dry</td>
</tr>
<tr>
<td>120</td>
<td>125</td>
<td></td>
<td>Gravel wet</td>
</tr>
<tr>
<td>125</td>
<td>128</td>
<td></td>
<td>Clay</td>
</tr>
<tr>
<td>128 4</td>
<td>132</td>
<td></td>
<td>Sand wet</td>
</tr>
<tr>
<td>132 4</td>
<td>136</td>
<td></td>
<td>Water</td>
</tr>
<tr>
<td>136</td>
<td>138</td>
<td></td>
<td>Coarse clean gravel</td>
</tr>
<tr>
<td>138</td>
<td>139</td>
<td></td>
<td>Sand</td>
</tr>
</tbody>
</table>
## WATER WELL LOG

### Owner
M.W. McConnell  
Address: Mulegy, Ill

### Driller
M.W. McConnell  
Address: Mulegy, Ill

### Date Started
August 22, 1958  
Date Completed: Sept. 6, 1958

### Location
Sec. 10 T. AV R. 36 N. sec. 6

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

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

### Casing
- 0 ft. to 213 ft  
- Type: Steel  
- Size: 10" LD 5/6 Well

### Perforated or Screened
- Ft. 90 to Ft. 105
- Ft. 115 to Ft. 190

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

### Shut-in pressure, for flowing well:
1500 lb/sq. in. on:  
(date)

### Pumping water level
125 feet at 1500 gal. per min.

### How tested
Dialer test 3 p.m.

### Length of test
Approx 2 hours each strata

### Remarks
- (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
- Casing bottom in large gravel, 10' up in sand, about 4' base gravel

(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>
<td>0</td>
<td>28</td>
</tr>
<tr>
<td>28</td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td>60</td>
</tr>
<tr>
<td>60</td>
<td>65</td>
</tr>
<tr>
<td>65</td>
<td>90</td>
</tr>
<tr>
<td>90</td>
<td>95</td>
</tr>
<tr>
<td>90</td>
<td>99</td>
</tr>
<tr>
<td>99</td>
<td>105</td>
</tr>
<tr>
<td>105</td>
<td>110</td>
</tr>
<tr>
<td>110</td>
<td>118</td>
</tr>
<tr>
<td>Note water stands at 87° &amp; cannot lower from 90°</td>
<td></td>
</tr>
<tr>
<td>118</td>
<td>119</td>
</tr>
<tr>
<td>119</td>
<td>121</td>
</tr>
<tr>
<td>121</td>
<td>126</td>
</tr>
<tr>
<td>126</td>
<td>131</td>
</tr>
<tr>
<td>131</td>
<td>138</td>
</tr>
<tr>
<td>138</td>
<td>145</td>
</tr>
<tr>
<td>145</td>
<td>146</td>
</tr>
<tr>
<td>146</td>
<td>151</td>
</tr>
<tr>
<td>151</td>
<td>157</td>
</tr>
<tr>
<td>157</td>
<td>160</td>
</tr>
<tr>
<td>160</td>
<td>200</td>
</tr>
<tr>
<td>200</td>
<td>213</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Fred Williams
Address: Townsend, Montana

Driller: [Blank]

Date of Notice of Appropriation of Groundwater: [Blank]

Date well started: [Blank]
Date completed: April 19, 1959

Type of well: Drilled

Equipment used: [Blank]
(Dig, driven, bored or drilled)


[Diagram indicating the character and thickness of different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc.]

Show exact depth of bottom.

Static Water Level for non-flowing Well: 98 feet

Shut-in Pressure for Flowing Well: [Blank]

Pumping Water Level: 18.0 feet at 700 gal. per minute.

Discharge in gal. per min. of flowing well: [Blank]

How tested: (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)

Remarks: [Blank]

Driller's License Number: [Blank]

Driller's Signature: [Blank]

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.
STATE OF MONTANA

County of Butte, Montana

Based upon the statements herein submitted to me, I am of the opinion that the application for the annulment of marriage made by the parties named in this petition should be granted.

There are no reasonable grounds for the continued existence of the marriage.

I am of the opinion that the applicants are entitled to a decree of annulment.

This petition is hereby filed on the 3rd day of December, 1962, at 10 o'clock in the morning.

Signed:

[Signature]
County Clerk

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

<table>
<thead>
<tr>
<th>Owner</th>
<th>Fred Williams</th>
<th>Address</th>
<th>Helena, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>Van Dyke's Drilling Co.</td>
<td>Address</td>
<td>Helena, Montana</td>
</tr>
</tbody>
</table>

Date of Notice of Appropriation of Groundwater: None

Date well started: Oct. 9, 1962
Date completed: Oct. 31, 1962

Type of well: Drilled
Equipment used: Service rotary (Chisel, drill, rotary or other)

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

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>Site of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>Perforations</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 31' 0" feet
Shut-in Pressure for Flowing Well: None
Pumping Water Level: 300' feet at 2500 g.p.m.
Discharge in gal. per min. of flowing well: None
Turbine Test Pump: Length of Test: 35 ft.
Remarks: (Gravel packing, cementing, packers, type of stringing, location of place of use of groundwater if not at well, and any other pertinent information, including number of wells bored in 2' with lower 16' of perforated 16' casing area irrigated, if used for irrigation) top 16' of 16' casing is plain. The Amnular space between 16'-bored and 16'-casing is packed with 1/2 to 3/8" wash and screened round gravel from 70' down to 350'.

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.
250-263 Soft porous sandstone.
265-273 Loose clean gravels.
275-283 Clay & gravel mixed.
284-292 Medium & large gravels.
294-296 Sticky clay.
298-301 Coarse clean gravels.
301-306 Coarse porous sandstone.
306-312 Clays.
312-314 Clay & gravels.
314-318 Sandstone, soft & porous.
318-323 Clean coarse gravels.
323-326 Clay.
326-330 Large gravels.
330-330 Clays with pebbles.
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Fred Williams
Address: Toston, Montana

Driller: Van Dyke Drilling Co.
Address: Bozeman, Montana

Date of Notice of Appropriation of Groundwater: None

Date well started: Dec. 13, 1957
Date completed: February, 1958

Type of well: Drilled
Equipment Used: Cable tools
Type of cable tools: (Cable, drill, rotary or other)

Water Use: Domestic □ Municipal □ Other □ Irrigation □

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

<table>
<thead>
<tr>
<th>Depth (Feet)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1</td>
<td>Sand</td>
</tr>
<tr>
<td>1-2</td>
<td>Clay</td>
</tr>
<tr>
<td>2-3</td>
<td>Rock, clay bound</td>
</tr>
<tr>
<td>3-4</td>
<td>Sand, lots of fine sand</td>
</tr>
<tr>
<td>4-5</td>
<td>Rocks, large &amp; coarse</td>
</tr>
</tbody>
</table>

State Water Level for non-flowing Well: 100 feet

Shut-in Pressure for Flowing Well: None

Pumping Water Level: 125 feet at 5 gal. per minute.

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

How Tested: Ballar
Length of Test: 1 hr.

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
<table>
<thead>
<tr>
<th>Depth Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>286-287</td>
<td>Clay with large rocks</td>
</tr>
<tr>
<td>270-277</td>
<td>Rocks</td>
</tr>
<tr>
<td>259-263</td>
<td>Sand, loose</td>
</tr>
<tr>
<td>252-256</td>
<td>Bounding sand, brown water</td>
</tr>
<tr>
<td>251-258</td>
<td>Gravel</td>
</tr>
<tr>
<td>248-250</td>
<td>Gravel, clay, sand</td>
</tr>
<tr>
<td>232-230</td>
<td>Gravel, large</td>
</tr>
<tr>
<td>229-234</td>
<td>Clay, rocks</td>
</tr>
<tr>
<td>214-219</td>
<td>Sand, stone</td>
</tr>
<tr>
<td>192-194</td>
<td>Gravel, sand</td>
</tr>
<tr>
<td>184-188</td>
<td>Rocks, lumps</td>
</tr>
<tr>
<td>179-182</td>
<td>Fine gravel</td>
</tr>
<tr>
<td>169-160</td>
<td>Good pan gravel</td>
</tr>
<tr>
<td>160-166</td>
<td>Clay bound gravel, some silt sand, tested for water, would not hold up after medium size baller</td>
</tr>
<tr>
<td>144-160</td>
<td>Sand, stone</td>
</tr>
<tr>
<td>138-170</td>
<td>Gravel</td>
</tr>
<tr>
<td>126-132</td>
<td>Clay</td>
</tr>
<tr>
<td>121-126</td>
<td>Sand, stone</td>
</tr>
<tr>
<td>115-121</td>
<td>Clay, sticky</td>
</tr>
<tr>
<td>111-113</td>
<td>Gravel</td>
</tr>
<tr>
<td>104-111</td>
<td>Clay bound gravel</td>
</tr>
<tr>
<td>97-103</td>
<td>Loose as 40-44, good sharp boulders rocks, tested for water</td>
</tr>
<tr>
<td>93-97</td>
<td>Very good and draw down</td>
</tr>
<tr>
<td>87-93</td>
<td>Cemented gravel</td>
</tr>
<tr>
<td>77-83</td>
<td>Sand, stone</td>
</tr>
<tr>
<td>68-77</td>
<td>Clay</td>
</tr>
<tr>
<td>43-46</td>
<td>Extra good gravel</td>
</tr>
</tbody>
</table>

69512
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Mont. Session Laws, 1961)

Notice of Appropriation of Groundwater Appropriation by Means of Well

Date of Notice of Appropriation of Groundwater: Aug. 10, 1964

Date Completed: Aug. 16, 1964

[Diagram with strata data]

Static Water Level for non-flowing Well: 45 feet

Shut-in Pressure for Flowing Well: none

Pumping Water Level: 240 feet at 2400 gal. per minute

Discharge is gal. per min. of flowing well: none

Duration: 3 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other pertinent information, including number of holes drilled open and 16" casing installed centered in 3/16" to 7/16" irrigation flow rate.)

License No. I

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.

(Over)
County of Broadwater.

I hereby certify that the within instrument was filed for record in my office on the 23rd day of September A.D. 1941.

At 60 min. past 2 o'clock P.M.

County Recorder.

By: 

VAN DYKEN DRILLING CO.

BOZEMAN, MONTANA
WELL CONSTRUCTION

16" CASING 0'-94'

- 30' CLAY FILL

- 4" x 6" WASHED AND SCREENED GRAVEL PACK: 30' TO 49'1"

- 45' PERFORATED CASING 7/8" X 3/4" SLOTS

- 20' PERFORATED CASING

- 20' PERFORATED CASING 85 SLOTS PER FT.

- 20' PERFORATED CASING

- 12' 8" PLAIN CASING

- 7' PLAIN CASING

- 9'6" PLAIN CASING

- 12" PLAIN CASING

- 19'6" PLAIN CASING

- 4" TO 7/8" GRAVEL FILL FROM 4'04" TO 4'31"

- 18" CASING

- 32" DIA. HOLE

VAN DYKEN DRILLING CO.

BOZEMAN, MONTANA
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):
   50 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:
   ____________________________
   ____________________________
   ____________________________

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:
   From 5 to 10 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
   This will have a 4 in. iron pipe casing and is 100 ft. deep

10. The estimated amount of groundwater withdrawn each year: I don't know

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 Broadwater
I hereby certify that the within instrument was filed for record in my office on the 30th day of December, A.D. 1963 at 57 min. past 11

[Signature]
County Recorder
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Herman Lie Nemr
Address: Testing, Montana

Driller: Paul Nemr
Address: Testing, Montana

Date Started: 12/5/77
Date Completed: 12/5/77

Location: Sec. 12 T 14 S R 3 W Sec. 8

Type of well: Drilled
Equipment used: Chisel Drill

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

Casing: 0 ft. to 4 ft.
Type: Steel
Size: 6

Casing: ft. to ft.
Type: 
Size:

Casing: ft. to ft.
Type: 
Size:

Perforated or Screened: Ft. to Ft.

Type of screen or perforation: None

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: Baller
Length of test: Short

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>12</td>
</tr>
<tr>
<td>12</td>
<td>17</td>
</tr>
<tr>
<td>17</td>
<td>20</td>
</tr>
<tr>
<td>20</td>
<td>35</td>
</tr>
<tr>
<td>35</td>
<td>36</td>
</tr>
<tr>
<td>36</td>
<td>44</td>
</tr>
<tr>
<td>44</td>
<td>46</td>
</tr>
</tbody>
</table>

Log of Well
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Herman L. Moudree of Toston
(Name of Appropriator) (Address) (Town)

County of Broadwater State of Montana

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: January 1938

4. The amount of groundwater claimed (in miner's inches or gallons per minute): in excess of 100 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: 10 irrigate shelter belt, 10 irrigate shelter belt, 10 irrigate shelter belt, 10 irrigate shelter belt

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

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

8. The depth of water table: 37 ft.

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

10. The estimated amount of groundwater withdrawn each year: 2,000,000 gal.

11. The log of formations encountered in the drilling of each well if available: O-2' silt, 2,012 ft. sand, 12,1014 ft. clay, 17 to 20 gravel, 20 gravel, 20 gravel, 36 to 41 gravel, 36 to 41 gravel, 36 to 41 gravel, 36 to 41 gravel, 36 to 41 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: O. S. E. records

Signature of Owner: Herman L. Moudree
Date: July 6, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Appropriator.
STATE OF MONTANA  
County of Broadwater.  
I hereby certify that the within document was filed for record in 

office on the 7th day of February, A.D. 1953.  

[Signature]  
County Recorder.  

[Signature]  
Deputy
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater
Owner: Herman L. Maydus, Toston, Mont.
Contractor (if any) ________________________________
Address of Contractor ________________________________
Date Started __________________ Date Completed ________

Describe means of obtaining groundwater without a well “as by sub-irrigation and other natural processes”. Include depth to water when applicable. Natural spring
Caused by __________________________
Water rising water table __________________________

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 __________
Round to nearest year __________________________
Livestock __________________________

Signature of Owner __________________________
Date __________________________

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

IN THE COURT OF COUNTY OF Broadwater.

I, hereby certify that the within instrument was filed for record in my office on the day of
February A.D. 1923 at min. past

E.M.

County Recorder.

By

[Signature]
WATER WELL LOG

Owner: W. D. Williams
Address: Townsend, Montana

Driller: Van Dyken Drilling Company
Address: Bozeman

Date Started: Oct. 23, 1959
Date Completed: Dec. 15, 1959

Location: Sec. 12 T. 4 N. R. 13 E. 3/4 sec. B4 NE

Type of well: Drilled
Equipment used: Cables, tools

Water use: Domestic ☑ Municipal ☐ Stock ☑ Irrigation ☐
Industrial ☐ Drainage ☐ Other: ☐

Casing: 0 ft. to 110 ft. Type: Prim steel Size: 6 5/8 B.D. = P.E.

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

Static Water level, for non-flowing well: 9 feet
Shut-in pressure, for flowing well: none

Pumping water level: 13 ft. draw down at 900 G.P.H.

How tested: Ballar

Length of test: 2 hrs.

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

(over)
<table>
<thead>
<tr>
<th>Depth, Feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>22</td>
</tr>
<tr>
<td>22</td>
<td>24</td>
</tr>
<tr>
<td>24</td>
<td>42</td>
</tr>
<tr>
<td>42</td>
<td>68</td>
</tr>
<tr>
<td>48</td>
<td>64</td>
</tr>
<tr>
<td>64</td>
<td>110</td>
</tr>
<tr>
<td>110</td>
<td>1144</td>
</tr>
<tr>
<td>1144</td>
<td>116</td>
</tr>
<tr>
<td>116</td>
<td></td>
</tr>
</tbody>
</table>
### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

**STATE OF MONTANA**

**ADMINISTRATOR OF GROUNDWATER CODE**

**OFFICE OF STATE ENGINEER**

**Declaration of Vested Groundwater Rights**

1. **W.D. Williams**
   - (Name of Appropriator)
   - 
   - (Address)
   - (Town)

   **County of Broadwater**
   - State of Montana

2. The beneficial use on which the claim is based:
   - **stock**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   - 12-15-57
   - **used continuously**

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   - **Started 10-23-59 Completed 12-15-59**

8. The depth of water table:
   - 9 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:
   - 110 feet 6" casing steel

10. The estimated amount of groundwater withdrawn each year:
    - 750,000 gallons

11. The log of formations encountered in the drilling of each well if available:
    - **log recorded in**
    - Box County Courthouse

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 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 A.D. appropriator.

---

18750
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1963
(Under Chapter 257, Montana Session Laws, 1961)

Owner: W. D. WILLIAMS
Address: BOXERNEY, MONT

Driller: Potts DRILLING
Address: BOXERNEY, MONT

Date of Notice of appropriation of groundwater: Nov. 15, 1965
Date completed: Nov. 30, 1965

Type of well: DEEP WELLS
Equipment used: CABLE TOOL
(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>Depth of Strata</th>
<th>Size and Weight of Casing</th>
<th>Pressure on Casing</th>
<th>Depth of Well</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-11 ft. Silt</td>
<td>6 1/2 x 10 ft.</td>
<td>N</td>
<td>40 ft.</td>
<td></td>
</tr>
<tr>
<td>5 FT. - 6 IN.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11-21 ft. SAND, AND GRAVELS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21-31 ft. SLOPSY CLAY AND SANDS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31-41 ft. COURSE SAND AND GRAVELS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

Shut-in Pressure for flowing well

Pumping Water Level

Discharge in gal. per min. of flowing well

How Tested: BAILER

Length of Test: 1 day

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

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

Driller's License Number

Driller's Signature

34897
STATE OF MONTANA \\
County of Broadwater \\
I hereby certify that the within instrument was filed for record in my \\
office on the 22nd day of \\
June, A.D. 1965 at \\
30 min. past 2 \\

of which \\

County Recorder. \\

By \\

Deputy.
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)

WOODROW HEMSKY
Address: TOSTON, MONT.
Driller: VAN DYK DRILLING CO.
Address: BOZEMAN, MONT.

Date well started: MAY 15/67 Date completed: MAY 29/67

Type of well: Drilled
Drilled (Dug, driven, bored or drilled) (Churn drill, rotary or other)

Type of water: 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 well, 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>Top of Ground</th>
<th>(Elev. above sea level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01.5</td>
<td>Soils and clays.</td>
</tr>
<tr>
<td>44.4</td>
<td>Gravels and boulders.</td>
</tr>
<tr>
<td>42.5</td>
<td>Clay bounded gravels.</td>
</tr>
<tr>
<td>42.5</td>
<td>Clay bounded sand and gravels.</td>
</tr>
<tr>
<td>53.6</td>
<td>Clay bounded sand and gravels with boulders.</td>
</tr>
<tr>
<td>66.1</td>
<td>Clay bounded sand and gravels with cemented lenses.</td>
</tr>
<tr>
<td>70.2</td>
<td>Gritty clays.</td>
</tr>
<tr>
<td>70.2</td>
<td>Sand and gravels with some clay lenses.</td>
</tr>
<tr>
<td>97.0</td>
<td>Clean sand and gravels.</td>
</tr>
<tr>
<td>100.0</td>
<td>Clay bounded sand and gravels.</td>
</tr>
<tr>
<td>112.0</td>
<td>Clay bounded sand and gravels.</td>
</tr>
<tr>
<td>114.0</td>
<td>Clay.</td>
</tr>
<tr>
<td>116.0</td>
<td>Gravel.</td>
</tr>
<tr>
<td>135.5</td>
<td>Coarse gravels.</td>
</tr>
<tr>
<td>155.5</td>
<td>Clean.</td>
</tr>
<tr>
<td>158.0</td>
<td>Gravels and clean gravel.</td>
</tr>
<tr>
<td>160.0</td>
<td>Clay bounded sand and gravels.</td>
</tr>
<tr>
<td>180.0</td>
<td>Clay.</td>
</tr>
<tr>
<td>201.0</td>
<td>Clay bounded gravels with some clean small lenses of gravels.</td>
</tr>
<tr>
<td>212.0</td>
<td>Soft sandstone.</td>
</tr>
<tr>
<td>213.0</td>
<td>Clay and gravels.</td>
</tr>
<tr>
<td>221.0</td>
<td>Clay.</td>
</tr>
<tr>
<td>226.0</td>
<td>All clay bounded sand and coarse gravels, with a few lenses of clean gravels from 1' to 3' thick.</td>
</tr>
<tr>
<td>352.0</td>
<td>Clay.</td>
</tr>
</tbody>
</table>

T.D. 355'

SHOW EXACT DEPTH OF BOTTOM.

License No. 1
Driller's License Number

Bert Van Dyken

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.

Static Water Level for non-flowing well:

123' feet

Shut-in Pressure for flowing well:

223.6' feet

Discharge in gal. per min. of flowing well:

none

How Tested:

Turbine test pump

Length of Test:

8 hrs.

Remarks:
Gravel packing, cementing, packers, type of shut-off, casing in centered by 32" hole, and gravel packers.

Copyright: 1967

Bert Van Dyken

(Continue on reverse side)

This well to be used for irrigation of 320 acres of crop land.

License No. 1
Driller's License Number

Bert Van Dyken
having first been duly sworn, deposes and says

that, having a lawful age and

and claimant of the order and meter rights and

the following notice of

completion of premeasure appropriation by means of coal and the

name, subscribed thereto, as the appropriator and claimant to

the contents of said foregoing notice and that the matters and things therein stated are true.

__________________________

Subscribed and sworn to before me, this 20th day of

[Signature]

[Notary Public]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES 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)

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

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

WOODROW HENSLY
Owner

TOSTON, MONT.
Address

Date well started Oct. 26/72
completed Nov. 14/72

Type of well Drilled

Equipment used Reverse Rotary rig

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

*Describe ____________________________

1962: If used for irrigation, industrial, drainage or other. Explain,
state number of acres and location or other data (i.e. Lot, Block
and Addition). .5 Acre, % Lot

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Type of Water Use</th>
<th>GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td></td>
</tr>
<tr>
<td>Municipal</td>
<td></td>
</tr>
<tr>
<td>Stock</td>
<td></td>
</tr>
<tr>
<td>Irrigation</td>
<td></td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
</tr>
<tr>
<td>Drainage</td>
<td></td>
</tr>
</tbody>
</table>

Top of Ground

<table>
<thead>
<tr>
<th>Top of Ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Rev. shown at well)</td>
</tr>
</tbody>
</table>

Driller's Log

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show
depth at which water is found and height to which water rises in well.

<table>
<thead>
<tr>
<th>Top of Ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Rev. shown at well)</td>
</tr>
</tbody>
</table>

FORMS:

1. Complete Form
2. File with County Clerk and Recorder
3. Last copy retained by Driller

Remainder shall be on file with Administrator's Office.

Driller's Address: VAN DYKE DRILLING CO.

BOZEMAN, MONTANA LICENSE NO. 1

Received: 15

County, B. R. D.
STATE of MONTANA
County of Broadwater

I hereby certify that the within instrument was filed for record in my office on the 32nd day of
DEC. A. D. 1973, at
1:45, min. past 90

Frances K. Miller
County Recorder

By
County Recorder
# Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1969

(Under Chapter 237, Montana Session Laws, 1961)

**Top of Ground**

- Elev. above sea level

<table>
<thead>
<tr>
<th>Top Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gravel</td>
</tr>
<tr>
<td>Brown Clay</td>
</tr>
<tr>
<td>Gravel</td>
</tr>
<tr>
<td>Brown Clay</td>
</tr>
<tr>
<td>Gravel</td>
</tr>
<tr>
<td>Cemented Gravel</td>
</tr>
<tr>
<td>Brown Clay</td>
</tr>
<tr>
<td>Clay &amp; Gravel</td>
</tr>
<tr>
<td>Gravel Sandstone (water)</td>
</tr>
<tr>
<td>Brown Clay (dry)</td>
</tr>
</tbody>
</table>

**File No.**

**Date of Notice of Completion of Groundwater Appropriation:** Mar. 19, 1969

**Date well started:** Feb. 18, 1969

**Date completed:** Feb. 27, 1969

**Type of well:** Drilled

**Equipment used:** Ghara

<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>

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as well, 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.

### Diagram

- **Static Water Level for non-flowing well:** 100 feet
- **Shut-in Pressure for flowing well:** 100 feet
- **Pumping Water Level:** 200 feet
- **Discharge in gal. per min. of flowing well:** 10 gpm

**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).

### Table

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size of Gravel</th>
<th>Depth of Water (feet)</th>
<th>Flow (gpm)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 in.</td>
<td>6” ID</td>
<td>250</td>
<td>17.08</td>
<td>14</td>
</tr>
</tbody>
</table>

**Remarks:**

- Water is coming from sandstone only through perforations and not below the casing.

(Continue on reverse side)

**USE:**

<table>
<thead>
<tr>
<th>Driller's License Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 179</td>
</tr>
</tbody>
</table>

**Driller's Signature:**

**Notice to be filed by owner with the County Clerk and Recorder in the county in which the well is located, three copies to be retained by driller.**

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

**Driller's Signature:**

**File No.:** 45,068
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... JOHN WILLIAMS
Address. Badersburg, Mont.

Driller. BARRUS DRILLING & Auger BUTTE, Mont.

Date of Notice of appropriation of groundwater... Feb. 27, 1969
Date well started... Feb. 18, 1969 Date completed... Feb. 27, 1969

Type of well... Drilled Equipment used... CHORM
(Dry, driven, bored or drilled) (Cham drill, rotary or other)

Water use... Domestic [x] Municipal [x] Stock [x] Irrigation [x] 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.

Date of Notice of appropriation of ground water... Feb. 27, 1969

Driller's License Number

Driller's Signature
STATE OF MONTANA
County of Broadwater

John Williams, having first been duly sworn, do deposes and says

that he is of lawful age and is the appropriator and claimant of the land at right mentioned in the foregoing notice of completion of ground water appropriation by means of well and the person whose name is embodied therein, is the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things shown in said are true.

John Williams

Subscribed and sworn to before me, this 17th day of March, 1869.

L. F. Steele
Notary Public for the State of Montana
Residing at

My Commission expires

76391

John Williams

Clerk of Court

I, the undersigned, do hereby certify that the within instrument was filed for record in my office on the 17th day of March, 1869.

[Signature]

[Date]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER COMMISSIONER
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Tom Williams
Address: Pocatello, Mont.

Driller: Bill O'Keefe
Address: Bozeman

Date of Notice of Appropriation of Groundwater: none

Date well started: Feb 27, 1962
Date completed: March 15, 1962

Type of well: Drilled
Equipment used: Callisto

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

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

Static Water Level for non-flowing Well: 120 feet

Shut-in Pressure for Flowing Well: none

Pumping Water Level: 225 feet at 8 gal. per minute.

Discharge in gal. per min. of flowing well: none

How Tested: Boiler
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)

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

Show exact depth of bottom.

Driller's License Number: 1
Driller's Signature: JOSEPH PATTON

This form is 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
County of Broadwater

I hereby certify that the within instrument was filed for record in this office on the 4th day of April, A.D. 1962 at ____. o'clock __ a.m. or p.m.

[Signature]
County Recorder
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JUL 8 1964

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 Appropiator.
715-39

Notice
Completion of well.

Woodrow M. Hensley

STATE OF MONTANA
County of Broadwater.
I hereby certify that the within instrument was filed for record in my office on the 7th day of
October, A.D. 19__ at
P.M. and past 8
o'clock A.M.

[Signature]
County Recorder.

By
Deputy.
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: 1960

Owner: Woodrow Hanley
Address: Yoston, Montana

Contractor (if any): owner
Address of Contractor: approximately 1960

Date Started: Date Completed: ______________

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

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

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

Signature of Appropriator: Woodrow Hanley
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.
The appropriator is the owner of the old Rockel Place in the Crow Creek Valley, including irrigated acreage in Section 23 and 24, Twp. 4 N. R. 1 E. M.P.M., Broadwater County, Montana.

In the 1860's, exact date unknown, predecessors in interest of this appropriator first improved a large spring known locally as "Mammoth Springs", a reservoir was erected to impound the water from the springs, the reservoir being known sometimes as "Plunkett Lake". To the best of your appropriator's knowledge and information, predecessors in interest of your appropriator sold and transferred one-half of the rights to these waters to an adjoining ranch now occupied by Cazier and Sons. The spring produces approximately 9 second feet of water in continuous flow, the reservoir impounds 90 acre feet and the water is used for incidental stock watering and for irrigation. Your appropriator irrigates approximately 370 acres of crop land in Sections 23 and 24. The use of this water has been continuous since the 1860's and your appropriator has reason to believe that the rights in and to the Mammoth Springs have heretofore been adjudicated and determined although the present Clerk of Court cannot find the express order providing therefor and the abstract of title is presently unavailable. Your appropriator makes claim for all of the waters which might have been decreed to him by order and which have been used by him and his predecessors in interest continuously since sometime in the 1860's.
STATE OF MONTANA
ADVISOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Woodrow Hanley, of Toston,
(Name of Appropriator) (Address) (Town)

County of Broadwater, State of Montana,
(County) (State)

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: domestic, stock, watering and irrigation, 1930.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   - Well No. 1: approx. 1930
   - Well No. 2: approx. 1930, both have been used continuously.

4. The amount of groundwater claimed (in miner’s inches or gallons per minute):
   - Well No. 1: 5,000 gal. per day
   - Well No. 2: 20,000 gal. per day.

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

6. The means of withdrawing the 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 water:

8. The depth of water table:
   - No. 1: 60 feet deep, water standing at 55 feet
   - No. 2: 100 feet deep, water standing at 55 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:
   - Well No. 1: dug well, rock walls, drilled to 60 feet, with 6” casing
   - Well No. 2: a drilled well, 6” steel casing
   - Electric pumps in both.

10. The estimated amount of groundwater withdrawn each year:
    - Well No. 1: 189,000 gallons
    - Well No. 2: 7,300,000 gallons

11. The log of formations encountered in the drilling of each well if available:
    - No log available.

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

Signature of Owner: __________________________
Date: December 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 MONTANA
County of Broadwater.

I hereby certify that the within instrument was filed for record in my office, on the 31st day of A.D. 1962, at

9 o'clock A.M.

County Recorder.
Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1869

Owner: [Name]
Address: [Address]

Contractor (if any): Not applicable
Address of Contractor: [Address]

Date Started: Date Completed:

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

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:

10-2nd feet year around used on Sections 23 & 14 All 18

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

Signature of Owner:
Date: Dec. 27, 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.
STATE OF MONTANA (County of Broadwater)

I hereby certify that the within

statement was filed for record in

office on the__27th__

day

December, A.D. 1963, at

__3:35__ o'clock, past __4__

o'clock P.M.

E. E. McLean

County Recorder.

By: S. I. Johnson

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

Owner: Thomas Henry Address: Hamdenburg, Mont.
Driller: Albert Heck Address: Havre, Montana

Date of Notice of Appropriation of Groundwater
Date well started: April 1
Date Completed: April 15

Type of well: Drilled
Equipment Used: Cable Tool
(dug, driven, bored or drilled)

Water Use: Domestic
Municipal
Stock
Irrigation
Industrial
Drainage

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 of Drilled</th>
<th>Shear and Weight of Drilling</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>60-100 feet</td>
<td>14 x 3.5 feet</td>
<td>1</td>
<td>1 1/2</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for Non-flowing Well: 35 feet
Shut-off Pressure for Flowing Well
Pumping Water Level: 50 feet at 6 gal. per minute.
Discharge in gal. per min. of flowing well
How Tested: Balance
Length of Test: 3 Hours
Remarks: (Gravel packing, cementing, packers, type of shut-off, location of place of use of groundwater if not at well, or any other pertinent information, including number of acres irrigated, if used for irrigation)

Driller’s License Number: Albert Heck
Driller’s Signature: "Albert Heck, driller, and Engineer, 1940"

This form is 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
County of Broadwater

I hereby certify that the within instrument was filed for record in my office on the 16th day of April, 1967, at 2 o'clock P.M.

[Signature]
County Recorder

By [Signature] Deputy
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 23T, Montana Session Laws, 1961)

Owner: JOHN F. WILLIAMS
Address: PO Box 242, Bozeman, MT

Driller: PAT DRILLING
Address: 8025 VARNER AVE

Date of Notice of appropriation of groundwater: June 29, 1971
Date of completion: June 29, 1971

Type of well: Drilled
Equipment used: Cable Tools

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

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Strata</th>
<th>Character of Water-bearing Strata</th>
<th>Height to Which Water Rises</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-0</td>
<td>Topsoil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12-19</td>
<td>Static Water Level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6'-90'</td>
<td>Sandstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20'-40'</td>
<td>Sandstone</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 19 feet
Shut-in Pressure for Flowing Well
Pumping Water Level: 0 feet
Discharge in gal. per min. of flowing well

How Tested: BAILER
Length of Test: 1 6/8 ft
Remarks: (Gravel packing, cementing, packers, type of strata, etc.)

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

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

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: [Signature]

Driller's Signature: [Signature]

Date: AUG 16 1977

File No: MONTANA WATER RESOURCES BOARD T R DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
I hereby certify that the instrument to which this certificate is affixed, is a true, correct and compared copy of the original on file in the office of the Clerk and Recorder.

 Witnesses to hand and the seal of the County of Broadwater, the 15th day of
August, 1947.

M. M. Sheringfield
CLERK AND RECORDER

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

**DEVELOPED AFTER JANUARY 1, 1962**

(Under Chapter 277, Montana Session Laws, 1961)

- **Applicant:** JOHN F. WILLIAMS
- **Address:** RADER'S BORG MONT
- **Drilling Address:** BOULDER MONT

**Date of Notice of appropriation of groundwater:**

**Date well started:** JUNE 29/62
**Date completed:** JUNE 30/62

**Type of well:** BILLED
**Equipment used:** Cable Tools

**Date of Notice of appropriation of groundwater:**

**Date well started:** JUNE 29/62
**Date completed:** JUNE 30/62

**Type of well:** BILLED
**Equipment used:** Cable Tools

**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>Strata</th>
<th>Depth (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIN</td>
<td>60</td>
</tr>
<tr>
<td>ID.</td>
<td>49</td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing well:** 12 feet.

**Static Pressure for Flowing Well:**

- **Pumping Water Level:** A feet
- **Discharge in gal. per min. of flowing well:** B

**Remarks:** Gravel packing, cementing, packers, type of shutoff.

**Driller's License Number:** 156
**Driller's Signature:** [Signature]

**Show exact depth of bottom.**
STATE OF MONTANA,

County of Broadwater, in and for the State of Montana, having first been duly sworn, depose and say that the person of lawful age and


and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name is


subscribed thereto, as the appropriator and claimant, that he know the contents of said foregoing notice and that the matters and things therein stated are true.

John F. Williams

Subscribed and sworn to before me, this 15th day of August, 1867.

Neddy Public for the State of Montana.

Resident of

My Commission expires 1st

John F. Williams

Appropriation No. 28433

M. J. Williams
## Groundwater Index

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>William L. Williams</td>
<td>SW1</td>
<td>76-9377</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Wm. Williams</td>
<td>LW2</td>
<td>67-9279</td>
<td>Same as above</td>
</tr>
<tr>
<td>6</td>
<td>Wilbur Parsons</td>
<td>LW3</td>
<td>70-714</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Dan Hunsaker</td>
<td>LW2</td>
<td>78-559</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Smith &amp; Grasby</td>
<td>LW2</td>
<td>70-816</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Jack Smith &amp; Maria</td>
<td>LW2</td>
<td>67-720</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Maurice Hunsaker</td>
<td>LW2</td>
<td>80-657</td>
<td>Company owned</td>
</tr>
<tr>
<td>20</td>
<td>E J. Kocher</td>
<td>LW2</td>
<td>71-566</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>La Verne Hunsaker</td>
<td>LW2</td>
<td>70-685</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>R L. Burt</td>
<td>LW2</td>
<td>70-951</td>
<td></td>
</tr>
</tbody>
</table>

*Note: The table continues on the next page.*
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

William G. Williams

(Name of Appropriator) (Address) (Town)

County of Beaverhead State of Montana

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

1. The beneficial use on which the claim is based.
   - stockwater well

2. Date or approximate date of earliest beneficial use; and how continuous the use has been.
   - April 1963 continuous use

3. The amount of groundwater claimed (in miner's inches or gallons per minute) - 25 gallons per minute

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

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

6. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
   - April 12, 1963 (one week)

7. The depth of water table.
   - 22 feet

8. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.
   - 40' deep & steel casing

9. The estimated amount of groundwater withdrawn each year.
   - 1500 head of cattle for 12 months

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

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

Signature of Owner: William G. Williams

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 MONTANA
County of Broadwater

I hereby certify that the within instrument was filed for record in this office on the 31st day of December, A.D. 1962 at 2:25 min. past 3.

[Signature]
County Recorder.

By: [Signature] Deputy.
Notice of Completion of Groundwater Appropriation by Means of DRILLING

(Under Chapter 237, Montana Session Laws, 1961)

Owner: John Williams
Address: Bozeman, MT

Date of Notice of Appropriation of Groundwater: April 17, 1963

Date well started: April 17, 1963

Date Completed: April 17, 1963

Type of well: Drilled

Equipment Used: Churn tool

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>Size of Drilled Hole</th>
<th>Kind</th>
<th>Pressure (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10, 15, 20</td>
<td>T1</td>
<td>1</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>40, 45, 50</td>
<td>T2</td>
<td>1</td>
<td>2</td>
<td>10</td>
</tr>
</tbody>
</table>

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

Shut-in Pressure for flowing Well: 0 pounds per square inch.

Pumping Water Level: 25 feet at 50 gal. per minute.

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

How Tested: Balance

Length of Test: 24 hours

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)

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; Quadruplicate for the Appropriator.
COUNTY OF BROADWATER

I, hereby certify that the within instrument was filed for record in my office on the 1st day of May, A.D. 1963, at _______________ o'clock A.M.

County Recorder

[Signature]
## Declaration of Vested Groundwater Rights

(Under Chapter 227, Montana Session Laws, 1961)

1. **Mills Headfield**, Name of Appropriate) of **Twin**, (Address) (Town)

   - County of: **Broadwater**
   - 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:
   - **Residential—household & garden**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   - **August 1920—Continued since**

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
   - **40 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:
   - **Electric pump**

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
   - **15 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:
   - **Sunch 50 feet**

10. The estimated amount of groundwater withdrawn each year
    - **900,000 gallons**

11. The loss 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 26, 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.
THomas OF Ri
County of Racustrer | oo.

Therefore certif that the within

amount was filed for record in

office on the 26th day

December, A.D. 1962 at

45 min. past 1

o'clock A.M.

James D. Stuart
County Recorder.

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Owner: DAN HUNSAKER Address: JOSEU MONT
Driller: PATS DRILLING Address: BOZEMAN MONT

Date of Notice of Appropriation of Groundwater:

Date well started 12/3/69 Date completed 12/11/69

Type of well: DRILLED Equipment Used: CABLE TOOLS

Water Use: Domestic □ Municipal □ Other □ Irrigation □

Industrial □ Drainage □ Stock □

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

Static Water Level for non-flowing Well: 17 feet.

Shut-in Pressure for flowing Well:

Pumping Water Level: 250 feet at 45 gal per minute.

Discharge in gal per min. of flowing well:

How Tested: Pump Length of Test: 41 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)

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.
STATE OF MONTANA
County of Broadwater

I certify that the within instrument was filed for record in my office on the
31st day of March A.D. 1972

(Handwritten Signature)

County Recorder

[Further handwritten notes and signatures]
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Smith and Lewis, of Butte, Montana
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 since that date:
   1947 Used continuously
4. The amount of groundwater claimed (in miner's inches or gallons per minute): 20 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 manner of withdrawing such water from the ground and the location of each well or other means of withdrawal: Electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   June 20, 1947 well started
   July 12, 1947 well completed
8. The depth of water table: 140 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: Drilled a 6-inch hole with a 6-inch iron casing to a depth of 200 feet
10. The estimated amount of groundwater withdrawn each year: 600,000 gallons
11. The log of formations encountered in the drilling of each well if available:
   0 to 110 feet clay and broken rock
   110 to 200 feet rock and sand
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record:

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.