STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER  

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

1. Field E. R. Add, of Hamilton  
(Name of Appropriator)  
(Address)  
(Town)  

County of Cascade  
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 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 The estimated amount of groundwater withdrawn each year.  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:  
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, ss.
County of Cascade.

I hereby certify that the within instrument was filed in this office on

JAN 16 1964

at 8:59 o'clock A.M.

J. L. LENNON
County Clerk and Recorder.

By:  [Signature]  Deputy.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODES
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1962)

1. Joe L. Roberts
   (Name of Appropriator)
   of 1400 S. 7th Street So., Great Falls
   (Address) (Town)

   County of Cascade
   State of Montana

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

   2. The beneficial use on which the claim is based: household, irrigation for 1.2 acres of garden and lawn, and use of 85,000 gallon swimming pool.

   3. Date or approximate date of earliest beneficial use: and how continuous the use has been: continuous since June 1955.

   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: one and two tenths acres, owned by Joe L. Roberts & wife, situated as described herein.

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: by electric pump situated in west side of land described herein.

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: commenced in October 1957 and finished in June 1958.

   8. The depth of water table: twenty-seven 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 is approximately four by four by thirty one feet in depth; cement cribbing from surface down seven feet to sandstone; natural rock formation on down to bottom.

   10. The estimated amount of groundwater withdrawn each year: one million (1,000,000) gallons.

   11. The log of formations encountered in the drilling of each well if available: seven feet of sand and gravel, twenty-four 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: The description of the plot of land on which this claim is made is recorded in Vol. 212 of Deeds, page 178, and Vol. 212 of Deeds, Page 511.

   Signature of Owner: [Signature]
   Date: December 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.

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 Cascade.

I hereby certify that the within instrument was filed in the office of

County Clerk on

DEC. 26 1909.

at 1:30 p.m.

J. L. MILLER
County Clerk and Recorder.

Twelve.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Arnold Soennichsen and
Lucille Soennichsen, Husband and wife
of 2300 13th Street South Great Falls, Montana
(Name of Appropriator)
(Address) (Town)

County of Cascade State of Montana

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

2. The beneficial use on which the claim is based
   Household use and lawn and garden irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   June 27, 1960

4. The amount of groundwater claimed (in miner’s inches or gallons per minute)
   12 gallon 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
   Lot 6 Block 16 Park Place Addition, Section 13, T. 20N, R. 3E
   Submersible Pump

Lot 3 Block 16 Park Place Addition,
Sec. 13, T. 20N, R. 3E

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   Commencement June 24, Completion June 29.

8. The depth of water table
   313 to 318 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 with rotary rig.
   Oct 6 ft, Depth 313 Ft, 40 Ft. 4" casing cemented from 0 to 40 Ft.
   Static water level 105 Ft.

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
    0 to 7 Ft. Clay, 7 to 18 Sandstones, 18 to 36 Red beds, 36 to 97 Shale rock, 97 to 114 Sandstone, 114 to 178 Shale rock & Sandstone ledges, 178 to 192 Sandstone (2 Gal. Per Ft.), 192 to 226 Shale rock, 226 to 267 Shale rock & Sandstone ledges, 267 to 313 Shale rock, 313 to 318 Sandstone & Shale rock ledges (water) Bailed 12 Gal. per min.

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
    Drilled by Soennichsen Drilling Co.
    Contractors License No. 61 issued under new law of 1961.

Signature of Owner: Arnold Soennichsen
Date: January 15, 1962

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA, ss.
County of Cascade.
I hereby certify that the within instrument was filed in this office on
JAN 7, 1902

J. L. ZERION
County Clerk and Recorder

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

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

1. Jack L. Stroop, of 1500-7th st., Great Falls, (Name of Appropriator)
   (Address) (Town)

   County of Cascade State of Montana

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

2. The beneficial use on which the claim is based: household and irrigation.

3. Date or approximate date of earliest beneficial use: January 1950 and continuous ever 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:

   11.5 acres of residence property owned by Jack L. Stroop & wife.

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

   Hydraulie pump from two wells located on the property as described.

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

   First well was completed prior to January 1950 and the second well was completed in July 1954.

8. The depth of water table: Forty-two 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 withdrawal of groundwater:

   First well is drilled well with 4 inch casing; second well is dug well four feet by four feet 41 feet in depth, with four feet by six feet by seven foot cement casing at the top.

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: Seven feet of sand and gravel and forty 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:

   The description of the land on which this right is claimed is more clearly described in Book 69 of Deeds, Page 503 and Vol. 220 of Deeds, Page 576.

   Signature of Owner: Jack L. Stroop
   Date: 12/30/54

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 by Means of Well

DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

Frank J. Ulsh and/or 2324-11th Ave. S. 
Owner: Lola Fern Ulsh
Address: Great Falls, Mont.

Date of Notice of appropriation of groundwater
Date well started: 5-29-1967
Date completed: 6-4-1967

Type of well: Drilled
Equipment used: Churn drill
(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 (feet)</th>
<th>Water Level</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>Static Water Level for non-flowing well</td>
<td>90 feet</td>
</tr>
<tr>
<td>35</td>
<td>Shut-in Pressure for Flowing Well</td>
<td></td>
</tr>
<tr>
<td>155</td>
<td>Pumping Water Level</td>
<td>155 feet at 8 gal. per minute</td>
</tr>
<tr>
<td>155</td>
<td>Discharge in gal. per min. of flowing well</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>How Tested</td>
<td>Bailer</td>
</tr>
<tr>
<td>1 hour</td>
<td>Length of Test</td>
<td>1 hour</td>
</tr>
<tr>
<td>Remarks: Gravel packing, cementing, packers, type of shutoff</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks: Lot, Block and Addition</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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, issue copy to be retained by driller.

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

I hereby certify that the within instrument was filed in this office on
JUL 11 1967
at 11:30 a.m.

J. L. LENNON
County Clerk of Register

By: R. E. Bares
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: Dennis W. Wingen
Address: 502 5th St. SE

Driller: Thomas B. Frank
Address: Great Falls, Mont.

Date of Notice of appropriation of groundwater: Jan. 25, 1970
Date well started: Feb. 1, 1970
Date completed: July 23, 1970

Type of well: Drilled
Equipment used: Field Tools

Water use: Domestic

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

Static Water Level for non-flowing well

Shut-in Pressure for Flowing Well

Pumping Water Level

Discharge in gal. per min. of flowing well

How Tested

Length of Test

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

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

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

7-20-70
STATE OF MONTANA, ss.
County of Cascade.
I hereby certify that the within instrument was filed in this office on
APR 8, 1970

2:40 o'clock P.M.

J. L. LENNON
County Clerk and Recorder

by:

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

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

Highwood Corporation, o Country Club Tower, Great Falls, Mont.
(Name of Appropriator) (Address) (Town)

County of Cascade 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 the irrigation of lawns on lots within City of Great Falls, Montana.

3. Date or approximate date of earliest beneficial use: and how continuous the use has been. July 13, 1957, earliest date water has been pumped for irrigation from May 1 October 1 of each year.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 126 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 is water withdrawn by an electric pump back of Dewar Apartments.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Construction of only well began in June 1957 and completed about July 16, 1957.

8. The depth of water table. Water level is about eight feet from surface of ground.

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 is accessed with concrete culvert pipe eight feet in diameter and about 20 feet deep.

10. The estimated amount of groundwater withdrawn each year Nine hundred thousand gallons.

11. The log of formations encountered in the drilling of each well if available From zero to two feet is dark brown clay loam which was fill-in dirt. From 2 to 6 feet is brown clay loam. From 6 to 8 feet is sandy loam and wet. From 8 to 14 feet is gravel sand and water-bearing.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. This well was dug for reason that City of Great Falls refused in 1956 to provide water with which to irrigate because of shortage of water from city water plant. Volume 202 of Deeds page 250 on May 23, 1949.

Highwood Corporation

Signature of Owner V.P
Date December 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.

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... 
I hereby certify that the within instrument was filed in this office on
DEC 27 1863

J. L. LENNOX
County Clerk and Recorder
By...
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

(Name of Appropriator) (Address) (Town)

County of __________________________ State of __________________________

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

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

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

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

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

6. The 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
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

[Name of Approphtor]  
(Address)  
(Town)

County of  
State of

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

1. Victor C. Fischer  
of  
Great Falls

2. The beneficial use on which the claim is based: Household and yard irrigation for 30 family units, i.e. in conjunction with 2nd well.

3. The date or approximate date of earliest beneficial use; and how continuous the use has been: April 1961, in use intermittently continuous 24 hours daily.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 60 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: Yard irrigation only about a total of 2 or 3 acres.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: 3 phase ground jet type pump located in below ground concrete pump room.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Drilling began April 5, 1961 and was completed April 6, 1961.

8. The depth of water table: Well depth 67 feet, water in well to 34 foot depth.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Deep well type, 6 inch cased from 0 feet to 40 feet, 5 inch cased from 40 to 67 feet. The depth of the well is 67 feet.

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

11. The log of formations encountered in the drilling of each well if available: 0 to 6, sandy loam; 6-10, quick sand 1-3, Turba 47-51 sand and gravel (10 psi), 51-54 dark shale, 54-56 sand and rock, 56-61, gray shale, 61-67, sand and rock "waterless.

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:  
Victor C. Fischer  
Date: December 17, 1962

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

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

Original to the County Clerk and Recorder: duplicate to the State Engineer: triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
STATE OF MONTANA
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)

FISCHEL & FISCHER
Address 100, Box 1357, G.L.

Driller R.L. Feeley
Address 927 10th Ave. SW 6 E.

Date of Notice of Appropriation of Groundwater

Date well started Feb. 8 1962 Date Completed Feb. 10 1962

Type of Well Drilled Equipment Used Drilled (dug, driven, bored or
(Churn, drill, rotary or drilled)

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

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

<table>
<thead>
<tr>
<th>Rise of Drilled Hole</th>
<th>Rise and Diameter of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 inch</td>
<td>5 inch</td>
<td>445</td>
<td>70</td>
<td>Slots 46</td>
</tr>
<tr>
<td>6 5/8 &quot;</td>
<td>6 5/8&quot; 0.12&quot; D.</td>
<td>13 lb to ft</td>
<td>49</td>
<td>4 x 10&quot;</td>
</tr>
</tbody>
</table>

Shut-in Pressure for Flowing Well

Discharge in gal. per min. of flowing well

How Tested: pump

Length of Test: 8 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.

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

Show exact depth of bottom.

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

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

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

Driller's License Number

Driller's Signature

52,553
STATE OF MONTANA,
County of Cascade,

I hereby certify that the action
instrument was filed in this office on

MAR 5, 1973

at 11:58 o'clock A.M.

J. E. LENNON
County Clerk

By: C. W. Proctor
Deputy
Notice of Completion of Groundwater Appropriation by Means of Well

(Chapter 237, Montana Session Laws, 1961)

**County:** Cascade

**Top of Ground**

(Elev. above sea level: 3460)

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Strata</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-2</td>
<td>loam</td>
</tr>
<tr>
<td>2-18</td>
<td>sandy silt</td>
</tr>
<tr>
<td>18-48</td>
<td>silt</td>
</tr>
<tr>
<td>48-54</td>
<td>sand rock (6 gr.)</td>
</tr>
<tr>
<td>54-66</td>
<td>gray silt</td>
</tr>
<tr>
<td>66-68</td>
<td>sand rock water</td>
</tr>
<tr>
<td>68-70</td>
<td>gray shale</td>
</tr>
</tbody>
</table>

**File No.**

<table>
<thead>
<tr>
<th>T</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>35</td>
</tr>
</tbody>
</table>

**Date well started:** Feb. 3, 1962

**Date completed:** Feb. 10, 1962

**Type of well:** Drilled

**Equipment Used:** Churn drill (dug, driven, bored or drilled)

**Water Use:** Domestic [ ] Municipal [ ] Other [ ] Irrigation [ ]

**Industrial [ ] Drainage [ ] Stock [ ]**

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

<table>
<thead>
<tr>
<th>Size of 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 inch</td>
<td>5 inch</td>
<td>44'</td>
<td>70'</td>
<td>48' Slots</td>
</tr>
<tr>
<td>6-5/8&quot;</td>
<td>14 lb to ft</td>
<td>6-5/8&quot;</td>
<td>0'</td>
<td>62' 2 x 10&quot;</td>
</tr>
<tr>
<td></td>
<td>12 lb to ft</td>
<td></td>
<td>49'</td>
<td>Casing driven open and to top of rock</td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing well:** 34 feet

**Shut-in Pressure for flowing well:**

**Pumping Water Level:** 34 feet at 18 gal. per minute

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

**How Tested:** Pump

**Length of Test:** 8 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)

*Yard irrigation only about a total of 2 to 3 acres*.

**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.
STATE OF MONTANA, } ss.
County of Cascade.
I hereby certify that the within instrument was filed in this office on

DEC 19, 1962
at 11:50 o'clock A.M.

J. L. LENNON
County Clerk and Recorder.

By
Deputy

#3215
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. HERMAN'S FLOWERS, INC. of Great Falls
   (Name of Appropriator) (Address)
   County of Cascade State of Montana
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

   Well located in NE1/4SE1/4 of Sec 15, T20N, R3E.

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

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been
      About August 1, 1900, - continuous

   4. The amount of groundwater claimed (in miner's inches or gallons per minute) 35 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 35,000 sq. ft. greenhouse plus 1 acre irrigation - Herman's Flowers, Inc.

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater About July 1, 1900, to About August 1, 1900.

   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 well 8 inch casing 150 feet deep
      Jet pumps 5 H.P. Motor

   10. The estimated amount of groundwater withdrawn each year 1-1/2 to 2 million gals per year

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

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

NOTE: Well is located in NE1/4SE1/4 of Sec 15, T20N, R3E.

HERMAN'S FLOWERS, INC.

About 858 East and 1537 South of NW corner of NE1/4NW1/4 of Sec 15, T20N, R3E.

Signature of Owner: President

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 Cascade.
I hereby certify that the within instrument was filed in this office on
JULY 1 - 1962
at 3:36 o'clock P.M.

J. L. LENNON
County Clerk and Recorder.

Deputy.
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 no applicable, so state otherwise the form may be returned.

Richard A. and/or Barbara J. Hughes
Owner

Address

Grant Falls, Montana

Date well started... Oct. 31, 1972

Date well completed... Oct. 7, 1972

Type of well drilled

Equipment used... Gium drill (Chill drill, rotary or other)

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

*Describe

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).

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Pitted Hole</th>
<th>Size and Weight of Casting</th>
<th>Pressure (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7&quot;</td>
<td>5/16 15/60</td>
<td>59</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>

Static water level... 42 ft.

Pumping water level... 25 ft. at 10 gallons per minute measured minutes after pumping began.

*Measured from ground level.

Well developed by... Tailer for 1 hours.

Power... HP

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

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.

Driller's Signature

Driller's Address

County... Grant Falls, Montana

LICENSE NO. 135

Show exact depth of bottom
STATE OF MONTANA, ex
County of Cascade.
I hereby certify that the within instrument was filed in this office on:

OCT 31 1972

at 11:00 o'clock AM

J. L. LENNON
County Clerk and Recorder.

By: [Signature]
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: Bob Koleski
Address: Great Falls, Mont.

Driller: Thomas B. Franklin
Address: Great Falls, Mont.

Date of Notice of appropriation of groundwater: Nov. 25, 1965

Date well started: Nov. 29, 1965
Date completed: Dec. 10, 1965

Type of well: Drill
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.

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:

Length of Test:

Remarks: (Gravel packing, cementing, packers, type of shutoff) None

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

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

Please answer all questions. If not applicable, no state, otherwise the form will be returned.
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: Bob Kobeli     Address: West Falls, Mont.
Driller: Thomas B. Frankel     Address: West Falls, Mont.

Date of Notice of appropriation of groundwater: Nov. 25, 1965
Date well started: Nov. 8, 1965  Date completed: Nov. 12, 1965

Type of well: Drilled  Equipment used: Tullis Tolo

Water use: Domestic  Municipal  Stock  Irrigation
Industrial  Draining  Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, sand, 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 Code</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7 1/2&quot;</td>
<td>66.5 00</td>
<td>10.80</td>
<td>None</td>
</tr>
<tr>
<td>56-56' Sandstone</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>80-93' Red Shale</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>93-108' Sandstone</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well 90 feet.
Shut-in Pressure for flowing well
Pumping Water Level at 10.8 feet 10.8 gallons per minute.
Discharge in gal. per min. of flowing well

How Tested: Boyle
Length of Test: 2 hrs.
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Show exact depth of bottom.

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

Driller’s Signature

Driller’s Signature
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. **Ezra E. Krouse**, 3110 Riverside Court, Great Falls,
   (Name of Appropriator)

   **State of Montana**, (Address)

   **County of Cascade**, (Town)

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

   - The beneficial use on which the claim is based: **Residence and Market**

   - Date or approximate date of earliest beneficial use, and how continuous the use has been: **January 1, 1962**

   - The amount of groundwater claimed (in miner’s inches or gallons per minute): **7 gal. per minute**

   - If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: **Not applicable**

   - The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: **Deep well(s), electrically operated**

   - The date of commencement and completion of the construction of the well, wells, or other withdrawal of groundwater: **Mar. 15, 1962**

   - The depth of water table: **30 ft.**

   - 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: **Not applicable**

   - The estimated amount of groundwater withdrawn each year: **Not applicable**

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

   - 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 applicable**

   

   **Signature of Owner**

   **Emil E. Krouse**

   **Date**

   **Aug. 20, 1962**

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

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

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

I hereby certify that as within in document was filed in this office on
AUG 30 1950
at 10:30 o'clock A.M.

J. L. LENNON
County Clerk and Recorder.

By [Signature]
D. [Signature]
#Declaration of Vested Groundwater Rights

**Under Chapter 237, Montana Session Laws, 1961**

1. **Gerald L. Shepherd** of 1500-14th Ave. S. W., Great Falls (Name of Appropriator) (Town) have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

<p>| | | | | |</p>
<table>
<thead>
<tr>
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<td>W</td>
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</tr>
<tr>
<td>E</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

2. The beneficial use on which the claim is based: Domestic use, Library, Garages, Toilets, Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: November, 1931. Continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 24 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: 7.53 acres. Supply well: Owners, Gerald L. and Helen M. Shepherd

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Electric jet pump. The well (1) for the house, garden, etc., is on Former Lot 20, Blk 20 of Unit Add. Oil Well (2) is on Former Lot 7, Blk 20 of Unit Add. Now turned back to garden.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1931. Former owner has moved out of the state. Wells were on the property when purchased October, 1939.

8. The depth of water table: 40 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: Both wells are drilled wells. 6 ft. casing: First well #1 is 60 ft. deep and 40 ft. down to water. Second well #2 supplies for the house, garden, etc., in 55 ft. deep and 30 ft. down to water.

10. The estimated amount of groundwater withdrawn each year: 14,135,150 gallons

11. The log of formations encountered in the drilling of each well: Former owner said well #2 had blue colored slide in bottom of well. #1 or first well - rock was encountered; red yellow color in water.

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:** Gerald L. Shepherd

**Date:** December 14, 1962

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

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

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

County of Cascade

I hereby certify that the within instrument was filed in this office on

DEC 17 1892

at —:00 a.m.

J. L. LEMMON

County Clerk and Recorder.

By —
Deputy.
**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.

---

**Owner**  
**Address**  
**Date well started**  
**Top of Ground**  
**Type of well**  
**Equipment used**

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

**Describe**  
*If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. lot, block and addition).*

**ESTIMATED ANNUAL WITHDRAWAL**

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Drilling Rod (Foot)</th>
<th>Top of Ground (Foot)</th>
<th>Size and Weight of Drilling Rod (Foot)</th>
<th>Top of Ground (Foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7&quot;</td>
<td>7&quot; 17</td>
<td>0</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>5½&quot; 14</td>
<td>50</td>
<td>70</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>54</td>
<td>54</td>
<td></td>
</tr>
</tbody>
</table>

**Static water level**  
**Pumping water level**  
**Well developed by**  
**Power**  
**Remarks**  
*Measured from ground level.*

**INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.**

- **Driller's Signature**
- **Driller's Address**
- **License No.**

---

**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.
STATE OF MONTANA,
County of Cascade.

I hereby certify that the above instrument was filed

NOV 13 1972

at 9:02 a.m.

J. T.
Clerk

[Signature]
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.

Owner: [Name]
Address: [Address]
License: [Number]

Date well started: [Date]
Date well completed: [Date]

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

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

*Describe 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).

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Pipe</th>
<th>Use and Weight of Clay</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>From (Feet)</td>
<td>To (Feet)</td>
<td></td>
</tr>
<tr>
<td>7&quot;</td>
<td></td>
<td>0</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>5&quot;</td>
<td></td>
<td>50</td>
<td>70</td>
<td></td>
</tr>
</tbody>
</table>

Static water level [ ] ft.
Pumping water level [ ] ft.

*Measured from ground level.
Well developed by [ ] for [ ] hours.
Power: [ ] HP
Remarks: [ ]

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature: [Signature]
Driller's Address: [Address]
License No.: [Number]

Show exact depth of bottom: [ ]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. H. Winn and Edith M. Wolverton, of Route 1 West, Great Falls, Montana

County of Cascade, 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

   House and stock watering

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

   Continuously since 1932

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

   Ten gallons

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

   Non-irrigation

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

   Jet electric pump

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

   Prior to 1900

8. The depth of water table

   100 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 withdrawal of groundwater

   Drilled, 6" casing - 100 feet deep

10. The estimated amount of groundwater withdrawn each year

    500,000 gallons

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

    Unknown

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

    Unknown because not required at time of land purchase in 1932

    Signature of Owner: Edith M. Wolverton

    Date: February 19, 1962

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

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

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

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

1. H. Winn & Edith N. Wolverton, of Route 1 West, Great Falls
   (Name of Appropor) (Address) (Town)

   County of Cascade 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. Watering stock

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

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

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

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Cylinder pump—gasoline-driven engine

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Prior to 1900

   8. The depth of water table. 50 feet

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Drilled, 6" casing — 50 feet deep

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

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

   12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. Unknown because not required at time of purchase of land in 1932

   Signature of Owner. [Signature]

   Date. February 19, 1962

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

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

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

COUNTY OF . . . . .

I hereby certify that the within instrument was filed in this office on the - day of . . . .

FEB. 19 1952

at . . . . . o'clock . . . . M

[Signature]

County Clerk and Recorder.

Deputy.
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sec 20</td>
<td>Nw 1/4</td>
</tr>
<tr>
<td>Sec 30</td>
<td>Ne 1/4</td>
</tr>
<tr>
<td>Sec 37</td>
<td>Se 1/4</td>
</tr>
</tbody>
</table>

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

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

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.

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

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

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

I hereby certify that the within instrument was filed in this office on
JUL 27 1962

9:11 (M)

By: [Signature]
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: 1951

Mary M. Clark
Owner: Address: 528 13th Ave Se
St. Falls, Mont.

Contractor (if any): not applicable

Address of Contractor:

Date Started: 1-31 Date Completed: 1951

Describe means of obtaining groundwater without a well "as by
sub-irrigation and other natural processes". Include depth to
water when applicable. Irrigation for a depth of 60 feet

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: Intermittent use for irrigation during growing seasons

Signature of Owner: Mary M. Clark
Date December 14, 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 Cascade.

I hereby certify that the within instrument was filed in this office on

DEC 1 5 1882

at 11:30 AM.

F. A. LINDON
County Clerk and Recorder.

By ________________
Deputy.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. **Mr. Mrs. Howard DeRoule** of West, Great Falls
   (Name of Appropriator) (Address) (Town)
   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:

   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 ____________
      May 15, 1958

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

   5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof ____________
      No use for irrigation

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal ____________
      Surface Pump
      S.E. 1/4 NE. 1/4, Sec. 8, T.20 N., R.3 E.

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater ____________
      April 19, 1958

   8. The depth of water table ____________
      35 ft. from top

   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, Driller: J. S. 97 ft. casing 5 in.
      Water well

   10. The estimated amount of groundwater withdrawn each year ____________
       Unknown

   11. The log of formations encountered in the drilling of each well if available ____________
       0' - 20': Boulder & chalk, 20' - 23': Loose gravel, 24' - 35': Red shale, 35' - 42': Grey 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 ____________
       Mortgage Record Book 17, Page 323

   Signature of Owner: **Nida M. DeRoule**
   Date: October 23, 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.
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.

Owner: Wilbur Kitterman
Address: RR 1, Box 235
Great Falls, Montana

Well started: 28 June 1972
Well completed: 30 June 1972

Type of well: Drilled
Equipment used: Churn Drill

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

Describe USE: If used for irrigation, industrial, drainage or other, explain number of acres and location or other data (i.e. Lot, Block and Addition). 10 Acres or less, SWk, SWk Sec. 21 T20N R3E.

ESTIMATED ANNUAL WITHDRAWAL: 2 million to 4 million gals.

<table>
<thead>
<tr>
<th>Size of Casing</th>
<th>Size and Weight of Casing</th>
<th>From (Foot)</th>
<th>To (Foot)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 inch</td>
<td>6 5/8</td>
<td>0</td>
<td>60</td>
<td>1/8 x 10&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>gravel placed behind casing to cover the perforations.</td>
</tr>
</tbody>
</table>

Static water level 48 ft. from ESP.
Pumping water level 51 ft. 40 gallons per minute, measured 60 minutes after pumping began. Measure from ground level.
Well developed by bailing for 1 1/2 hours.

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

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's License No. 59859

Driller's Address: 927 - 16 Ave. S.W.
STATE OF MONTANA, ss.
County of

I hereby certify that the within instrument was filed in this office on

JUL 3 1972

8:45

Deputy
## WATER WELL LOG

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled, driven, bored, or drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment used</td>
<td>Well, drill, others</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>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>Surface ft. to</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14 ft.</td>
<td>steel</td>
<td>4 1/2 O.D.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>Ft. to Ft.</th>
</tr>
</thead>
</table>

| Type of screen or perforations: | |

<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>lh sq. in. on:</th>
<th>(date)</th>
</tr>
</thead>
</table>

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

| How tested: | raw pump continuously at 10 gal per min |

| Length of test: | for 7 days without stopping |

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

<p>| (over) | |</p>
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>surface 8'</td>
<td>soil</td>
</tr>
<tr>
<td>8' to 40'</td>
<td>shell rock</td>
</tr>
<tr>
<td>40' to 41'</td>
<td>very hard rock</td>
</tr>
<tr>
<td>41' to 55'</td>
<td>sandstone</td>
</tr>
</tbody>
</table>

STATE OF MONTANA,

COUNTY OF CLEAVELAND

I hereby certify that the within instrument was filed in true and correct form on the day of MAY 10, 1960, at 10:09 AM.

[Signature]

County Clerk and Recorder

[Signature]

Deputy.
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. **Edward A. Tiffany**, 1266-3rd Ave So, Gr. Falls
   - **(Name of Appropriator)**
   - **(Address)**
   - **(Town)**
   - **(County)**
   - **(State)**

The Owner has 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 use plus irrigation**

3. Date or approximate date of earliest beneficial use and how continuous the use has been: **August 14, 1950 and continuous thereafter**

4. The amount of groundwater claimed (in miner's inches or gallons per minute): **About 50 Gal. Per Min. Measured at Time of Drilling**

5. If used for irrigation, the average description of the lands to which water has been applied and name of the owner thereof: **Tract No. 22 of Midkiff Green Acres Tracks, 1st North, 385 feet Tract**

6. The means of withdrawing such water from the ground and the location of the well or other means of withdrawal: **Pumped from 100 ft. Truck Ac Tracts**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **Well Drilled, Feased by M. E. Rafferty of Gr. Falls, Drilled between Aug. 10 and Aug. 14, 1950**

8. The depth of water table: **Gravel & Water Struck Between 66' & 68' Water Raised To Within 6' of Surface**

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: **Well Depth = 68', Cased with 5/8" OD Casing**

10. The estimated amount of groundwater withdrawn each year: **Unknown: 45CE**

11. The log of formations encountered in the drilling of each well if available: **0' to 10' Long, 10' to 17' Quick Sand, 17' to 64' Silt, 64' to 66' Quick Sand, 66' to 68' Gravel and Water**

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 Known. Only Record of Driller M. E. B. Rafferty License 1686**

---

**Signature of Owner:**

**Edward A. Tiffany**

**Date:** Dec. 31, 1962

---

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

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

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

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Albert F. Hagemann</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>R.R. #1 West</td>
</tr>
<tr>
<td>Driller</td>
<td>E. B. Flood</td>
</tr>
<tr>
<td>Address</td>
<td>Great Falls, Mont.</td>
</tr>
<tr>
<td>Date Started</td>
<td>August 9, 1926</td>
</tr>
<tr>
<td>Date Completed</td>
<td>April 12, 1927</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 21, T 20, R 3 E 1/4</td>
</tr>
</tbody>
</table>

**Type of well:** Drilled

**Equipment used:** Churn Drill

**Water use:**
- Domestic: X
- Municipal: [ ]
- Stock: [ ]
- Irrigation: [ ]
- Industrial: [ ]
- Drainage: [ ]
- Other: Lawn, Flowers, Shrubs

**Casing:**
- Type: [ ]
- Size: [ ]
- Foot to foot

**Perforated or Screened:**
- Type: [ ]
- Size: [ ]
- Foot to foot

**Static Water level, for non-flowing well:** 159 feet

**Shut-In pressure, for flowing well:**

**Pumping water level:**

**How tested:** Drilling Test

**Length of test:**

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

A complete copy of the log as presented to me by Mr. Flood attached to the back of this form.

(over)
Log of Albert F. Bergmann's Water Well
August 9th, 1936

<table>
<thead>
<tr>
<th>Depth</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 60 ft.</td>
<td>Quick Sand (Silt Dry)</td>
</tr>
<tr>
<td>60&quot; to 105&quot;</td>
<td>Red Shale</td>
</tr>
<tr>
<td>105&quot; to 113&quot;</td>
<td>Sand Rock (Grey)</td>
</tr>
<tr>
<td>113&quot; to 130&quot;</td>
<td>Shale Blue</td>
</tr>
<tr>
<td>130&quot; to 175&quot;</td>
<td>Sand Rock (Grey)</td>
</tr>
<tr>
<td>175&quot; to 185&quot;</td>
<td>Sand Rock (Red)</td>
</tr>
<tr>
<td>185&quot; to 220&quot;</td>
<td>Shale Red</td>
</tr>
<tr>
<td>220&quot; to 301&quot;</td>
<td>Sand Grey</td>
</tr>
<tr>
<td>301&quot; to 322&quot;</td>
<td>Lime Rock Grey</td>
</tr>
<tr>
<td>322&quot; to 336&quot;</td>
<td>Shale Blue</td>
</tr>
<tr>
<td>336&quot; to 365&quot;</td>
<td>Sand Rock Grey</td>
</tr>
<tr>
<td>365&quot; to 375&quot;</td>
<td>Shale Blue</td>
</tr>
</tbody>
</table>

375 = Total Depth, on completion of this drilling

32 Gallons of Water per bailing test at 132 Ft.)

120" = 282" = Per Hour.

385 = 398"

The 2 & 3/16 inch casing comes up in bottom of 7 inch casing 156 1/2 ft. This 3/4" inch pipe is V thread

58 ft. O.D. casing
24 ft. O.D. casing
1 Steel Shoe
316 ft. 5/8 inch O.D. casing
6 joints perforating casing

E.L. Flood

April 12th, 1937

375 to 385 ft. = Blue Shale
385" to 396" = Sand Rock
396" to 410" = Shale
410" to 437" = Madison Lime

On three bailing test's this well dropped to only 90 g.p.i. per hour

65 ft. of 5 & 9/16 inch casing

Static water level 15% ft. from surface. (April 9th. test)

Bottom of 5 & 9/16 O.D. casing is now at 407 ft.

10 twenty one ft. joints of 2 inch drop pipe set, bottom of drop pipe is 407 ft. from surface.

Evell L. Flood
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......July 22, 1965

Owner......A. F. & Leo......Address......B. W. West

Strong......Great Falls, Montana

Contractor (if any)......None......Developed by State Highways

Commission

Address of Contractor......None

Date Started......July 22, 1965

Date Completed......July 22, 1965

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

center of NW 4, Sec. 21, T20N, R3E, in Cascade

County, Montana

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......150 inches

inches - continuous use - arrived at by State

Highway Engineer - contractor

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

NE 4......Sec. 21 T. 20 R. 3 W

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, } ss.
County of Cascade.

I hereby certify that the within instrument was filed in this office on

AUG 3 - 1965

Date

at 11:00 o'clock A.M.

J. L. LENNON
County Clerk and Recorder.

By

Deputy.
**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 337 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.

**Owner:** TEXACO INC.  
**Address:** CORE HILL

---

**Type of well:** Drilled  
**Equipment used:** Rotary  
**Water Use:** Domestic □ Municipal □ Stock □ Irrigation □  
**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).

---

**ESTIMATED ANNUAL WITHDRAWAL**

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.30</td>
<td>1/2&quot; Holes</td>
</tr>
</tbody>
</table>

---

**Static water level:** 60 ft.  
**Pumping water level:** 270 ft. at 18 gallons per minute measured 15 minutes after pumping began.

*Measured from ground level. Well developed by Pumping... for 4 hours. Power: 400 HP Pump: 5.**

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

---

**INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.**

**Driller's Signature:**  
**Driller's Address:**

---

**LICENSE NO.** 199

---

**Top of Ground (Flow where sea level):**

<table>
<thead>
<tr>
<th>From (Ft)</th>
<th>To (Ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>20</td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td>40</td>
</tr>
<tr>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>60</td>
<td>70</td>
</tr>
<tr>
<td>70</td>
<td>80</td>
</tr>
<tr>
<td>80</td>
<td>90</td>
</tr>
<tr>
<td>90</td>
<td>100</td>
</tr>
</tbody>
</table>

---

**Show exact depth of bottom:** 50.72 ft
As the Administrator of the Groundwater Code for the State of Montana, please take note of the following special instructions, in order to properly protect your groundwater right.

Special Instructions:

Please provide the county filing information for the attached form.

Thank you.

FILE NUMBER: 5360
FILE DATE: MAY 8, 1972
TIME: 1:00 P.M.

Equipment used: [ ] Carboy 
(Choose all that apply or other)

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

Describe Service: [ ] Irrigation [ ] Domestic [ ] Industrial [ ] Drainage[ ] Other [ ]

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).

ESTIMATED ANNUAL WITHDRAWAL:

<table>
<thead>
<tr>
<th>Well</th>
<th>Depth</th>
<th>Diameter</th>
<th>Type</th>
<th>Time to dry up</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 3/4</td>
<td>4&quot;</td>
<td>320</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 40 ft.
Pumping water level: 230 ft.
15 gal/min, measured 5 minutes after pumping began.

*Measured from ground level.
Power: [ ] Gas [ ] Diesel [ ] Other

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

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature: [ ]

Driller's Address: [ ]

LICENSE NO: [ ]

320 - Show exact depth of bottom

50, 724
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 227 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.

Owner: TEXAS INC
Address: GORE HILL

Date well started: 4-1-72
completed: 5-13-72

Type of well: DEELED
Equipment used: ROTARY
Water Use: Domestic □ Municipal □ Stock □ Irrigation □
Industrial □ Drainage □ Other □ Garden/Lawn □

*Describe SERVICE STATION
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). 

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Min.</th>
<th>Rate of Flow</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 ½&quot;</td>
<td>0</td>
<td>320</td>
</tr>
<tr>
<td>4&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Perforations: 1½" I.D. 200 320 Notes

Static water level: 40 ft.
Pumping water level 220 ft. at 15 gallons per minute measured 3 minutes after pumping began.
*Measured from ground level.
Well developed by Pumping for 4 hours.
Power: 5 HP Pump: IP
Remarks: (Gravel packing, cementing, packers, type of shell)

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.

Each small square represents 40 ACRES.

Driller's Signature: [signature]
Driller's Address: 4020 7th Ave So

LICENSE NO. 194

320 Show exact depth of bottom