Declaration of Vested Groundwater Rights

(Under Chapter 337, Montana Session Laws, 1961)

1. General Form
   - County of: Gallatin
   - Town of: Gallatin Gateway

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: July 1, 1942.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 20 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: 1942.

8. The depth of water table: 5.5 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: Depth 18' to 20' - 6' casing.

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 The estimated amount of groundwater withdrawn each year.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: 1-8-1964

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

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

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

Filed: May 18, 1934
at 4:10 o'clock, M.

EARL WALTON
COUNTY CLERK & RECORDER

By: [Signature]

Fee: $2.00, PA

$13.50
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Harry C. Wind
Address: 1409 E. 10th St.
Driller: David Hult
Address: 301 W. Agate St.

Date of Notice of Appropriation of Groundwater: Oct 16, 1964
Date well started: Oct 1, 1964
Type of well: Drilled
Equipment Used: Drilled
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 water rises in the well.

| Size of Drilled Hole | Size and Weight of Casing | From (Ft) | To (Ft) | PERFORATIONS
|----------------------|--------------------------|-----------|---------|----------------
| 9"                   | 6 3/4" x 6 1/2"          | 0         | 61'     | none          |

Static Water Level for non-flowing Well: 5 2/3 feet

Shut-in Pressure for Flowing Well

Pumping Water Level: 5 2/3 feet at 10 gal. per minute

Discharge in gal. per min. of flowing well

How Tested: Drilled
Length of Test: 2 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)

Lot 4, Castle Rock Tracts
Show exact depth of bottom.

Driller's License Number: 1975
Driller's Signature: David Hult

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; quadruplicate for the Appropriator.
**Notice of Completion of Groundwater Appropriation by Means of Well**

**DEVELOPED AFTER JANUARY 1, 1965**

(Under Chapter 237, Montana Session Laws, 1961)

**Driller:** Harold Balzer  
**Address:** Route 1, Box 100, Hunt, Mont.

**Date of Notice of appropriation of groundwater:**
JULY 20, 1968  
**Date completed:** AUG. 19, 1968

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

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

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 5/8 2 above</td>
<td>61</td>
<td>none</td>
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<td></td>
</tr>
<tr>
<td>19 1b</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

- **Static Water Level for non-flowing well:** 47 feet
- **Shut-in Pressure for flowing Well:** 20 gal. per minute
- **Discharge in gal. per min. of flowing well:** 473 gpm
- **Length of Test:** 4 hrs
- **Remarks:** (Gravel packing, cementing, packer, type of shutoff)

**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:** 44,510

**Driller’s Signature:**

---

**Top of Ground**

(Elev. above sea level)

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Depth</th>
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<tbody>
<tr>
<td>0-2 soil rock</td>
<td></td>
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<tr>
<td>2-10 rock</td>
<td></td>
</tr>
<tr>
<td>10-25 gravel &amp; rock</td>
<td></td>
</tr>
<tr>
<td>25-50 sand</td>
<td></td>
</tr>
<tr>
<td>50-60 clay gravel &amp; very little water</td>
<td></td>
</tr>
<tr>
<td>60-70 sand &amp; gravel</td>
<td></td>
</tr>
<tr>
<td>70-80 clay</td>
<td></td>
</tr>
<tr>
<td>80-90 gravel</td>
<td></td>
</tr>
</tbody>
</table>

**Bottom of Well**

**Castile Rock**

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

Owner: Jack and Jack's Casin
Address: 530-13AENOMONTAIN
Driller: Harold Hubert
Address: R.B. BOWMAN MONT

Date of Notice of Appropriation of Groundwater: Oct. 12, 1961
Completed Date: Dec. 12, 1961

Type of well: Drilled
Equipment Used: Churn
(Churn, drill, rotary or other)

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

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, 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 of Weight of Casing</th>
<th>Depth (Feet)</th>
<th>TD (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5½</td>
<td>4½ x 0.64</td>
<td>0</td>
<td>54</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 56' feet.
Shut-in Pressure for Flowing Well:
Pumping Water Level: 58' feet at 10 gal. per minute.
Discharge in gal. per min. of flowing well:
How Tested: Weider
Length of Test: 2 hrs.

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

Driller's License Number
Driller's Signature

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

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

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

Filed December 27, 1962
at 2:37 o’clock P.M.

By: J. Morrow, Deputy

Fee $2.00 paid.
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws of 1911)

Harry C. Wixom &
Owner: Maria E. Wixom Address: Decker Nursery

Driller: Harold Hubert Address: Route 1

Date of Notice of Appropriation of Groundwater: July 10, 1966

Date well started: July 15, 1966

Date well completed: July 15, 1966

Type of well: Drilled

Equipment Used: Churn

(Churn, 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 Drill Hole</th>
<th>Size of Weir at Casting</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7&quot;</td>
<td>6&quot; I.D.</td>
<td>18</td>
<td>40</td>
<td>None</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 47 feet.

Shut-in Pressure for Flowing well: 

Pumping Water Level: 5.7 feet at 5 gal. per minute.

Discharge in gal. per min. of flowing well:

How Tested: Pump

Length of Test: 8 hrs.

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

- 

Discharge in gal. per min. of flowing well:

How Tested: Pump

Length of Test: 8 hrs.

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

- 

Driller's License Number

Driller's Signature

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

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

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

4/24/67
## GROUNDWATER INDEX

### Table

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<td>United States Census</td>
<td>6-7-3</td>
<td>92-4</td>
<td></td>
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<tr>
<td></td>
<td>(Forest Service)</td>
<td></td>
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<td></td>
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</table>

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*Page 1 of 4*
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 287 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1930

United States of America

Owner (Forest Service) Address: Bozeman, Montana

Contractor (if any): N/A

Address of Contractor: N/A

Date Started: 1930 Date Completed: 1930

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:

---

United States of America

Signature of Owner: By

Date: 12/4/63

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

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

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

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

Filed December 9, 1963
at 11:24 A.M.

Karl Walton
County Clerk & Recorder

Deputy
<table>
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<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
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<th>Remarks</th>
</tr>
</thead>
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<td>D-16</td>
<td>815</td>
<td></td>
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<tr>
<td>16</td>
<td>United States of America</td>
<td>D-17</td>
<td>925</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Forest Service)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>United States of America</td>
<td>D-17</td>
<td>824</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Forest Service)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

<table>
<thead>
<tr>
<th>Layer</th>
<th>Description</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>60-65'</td>
<td>Hard blue shale</td>
<td>60'</td>
</tr>
<tr>
<td>65-70'</td>
<td>Sandstone</td>
<td>65'</td>
</tr>
<tr>
<td>70-85'</td>
<td>Hard blue shale</td>
<td>70'</td>
</tr>
<tr>
<td>85-92'</td>
<td>Sandstone</td>
<td>85'</td>
</tr>
</tbody>
</table>

Total Depth: 92'

Static Water Level for non-flowing Well: 48 ft.
Shut-in Pressure for Flowing Well: N/A
Pumping Water Level: 51 ft. at 35 gal. per minute.
Discharge in gal. per min. of flowing well: N/A
How Tested: Pumping
Length of Test: 1 hour
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 acres irrigated, if used for irrigation)

License No.: 1
Driller's License Number: Sandstone Drilling
Driller's Signature: Sandstone Drilling

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 Appropriorator.
United States of America (Forest Service) of Roseman
(County of Gallatin 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. Continuous use 1940 to 1947. Capped off in 1947. Future domestic use intended.

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

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. W/A.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1940.

8. The depth of water table. Unknown.

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

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

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. 


By: Signature of Owner

Date: December 4, 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 Gallatin

Filed: December 9, 1963
at 12:06 o'clock P.M.

EARL W. WATSON
COUNTY CLERK & RECORDER
By: LUCILL A. McPHERSON

Fee $2.00
**Declaration of Vested Groundwater Rights**  
(Under Chapter 237, Montana Session Laws, 1961)

- **United States of America** (Forest Service)  
- **Bozeman**

<table>
<thead>
<tr>
<th>County of</th>
<th>Gallatin</th>
<th>State of</th>
<th>Montana</th>
</tr>
</thead>
</table>

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **July 8, 1953**

4. The amount of groundwater claimed (in miner's inches or gallons per minute): **25 G.P.M.**

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: **W/A**

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **July 8, 1953**

8. The depth of water table: **29 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. 6" casing.**  
   - Depth of well: **29 ft.**

10. The estimated amount of groundwater withdrawn each year: **9000 gallons**

11. The log of formations encountered in the drilling of each well if available:
   - 0' to 6' Gravel and shale
   - 6' to 50' Red clay and sand
   - Water level raised 21 feet in casing

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: **W/A**

**UNITED STATES OF AMERICA**  
**Signature of Owner:** [Signature]  
**Date:** December 4, 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 Gallatin

Filed December 9, 1963
at 12:00 o'clock P.M.

EARL WALTON
CLERK & RECORDER

Fee $2.00
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<td>12W3</td>
<td>1004</td>
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</tbody>
</table>
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. United States of America, of Gallatin Gateway, (Name of Appropriator) (Address) (Town)
   County of Gallatin, 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 use for fire lookout.

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

   4. The amount of groundwater claimed (in miner's inches or gallons per minute). 2 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...not applicable

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal...concrete spring box...SENSA Section 2, T5S, R4E

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

   8. The depth of water table...shallow

   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...concrete spring box approximately 31 x 4 ft pipe and trough

   10. The estimated amount of groundwater withdrawn each year...400,000 gallons

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

   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

   ![Diagram of groundwater withdrawal](image)

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

   SE 1/4 NW Sec. 2 T5S R4E

   Signature of Owner...[Signature]
   Date...October 3, 1963

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

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

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

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: December 23, 1963

Owner:

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. Gravity Fall:

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:

Signature of Owner:

Date: December 23, 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.
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<tbody>
<tr>
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<td>Big Sky Meat, Inc.</td>
<td>A  W  S</td>
<td>2362</td>
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</tr>
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<td>39</td>
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<td>40</td>
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<td>A  W  S</td>
<td>2358</td>
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</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Owner:
BIG SKY MONT. INC. Address: BOZEMAN, MONTANA

Driller:
VAN DYKEN DRILLING CO. Address: BOZEMAN, MONTANA

Date of Notice of appropriation of groundwater: none

Date well started: 8/9/70 Date completed: 8/14/70

Type of well Drilled Equipment used: Cable tools
(Dig, driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic □ Municipal □ Stock □ Irrigation □
Industrial □ Drainage □ Other □ Test hole

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6½&quot; O.D. 17#/per ft.</td>
<td>Tested</td>
<td>0</td>
<td>42&quot;</td>
<td>¼&quot;x2&quot; slots 21 27</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well
6 feet

Shut-in Pressure for Flowing Well: none

Pumping Water Level: 10 feet at 30 gal. per minute.

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

How Tested: Bailier Length of Test: 2 hours

Remarks: (Gravel packing, cementing, packers, type of shut-off, drill cuttings outside of casing)

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).

LICENSE NO. 1
Driller's License Number

Driller's Signature: 48391
### Log of Exploration Boring

**Project:** Big Sky of Montana  
**Unit:** Water Supply - Meadow Village  
**Location:** On North Fork, 1/4 mi. South of guest ranch  
**Name of Driller:** Van Dyken

<table>
<thead>
<tr>
<th>Elevation (ft)</th>
<th>Depth (ft)</th>
<th>Legend</th>
<th>Classification of Materials</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.0</td>
<td></td>
<td>DWT</td>
<td>Top Soil</td>
<td></td>
</tr>
<tr>
<td>19.0</td>
<td></td>
<td>DWT</td>
<td>GRAVEL, clayey; some clean layers, medium compact, saturated</td>
<td></td>
</tr>
<tr>
<td>32.0</td>
<td></td>
<td>DWT</td>
<td>SAND, clayey; with scattered gravel, saturated, loose,</td>
<td></td>
</tr>
<tr>
<td>39.0</td>
<td></td>
<td>DWT</td>
<td>CLAY, gravelly; wet</td>
<td></td>
</tr>
<tr>
<td>43.0</td>
<td></td>
<td>DWT</td>
<td>SHALE; claystone</td>
<td></td>
</tr>
</tbody>
</table>

**Drill Type:** Soil - Cable Tool  
**Rock Drill Type:** Cable Tool  
**Size, Type of Bit:** 5"  
**Total No. of Overburden Samples Taken:** 0  
**Total No. of Core Boxes:** 0  
**Total Core Recovery for Boring (%):** 0  
**Elevation: Top of Hole:** 92  
**Groundwater Level:** 5.0  
**Thicknes of Overburden:** 42.0  
**Depth Drilled into Rock:** 1.0  
**Total Depth of Hole:** 43.0  
**Date HJole Started:** 8-13-70  
**Date HJole Completed:** 8-21-70  
**Classification by driller generally confirmed by inspector:**  

**Remarks:** Casing perforated 32'-24'; 21 rows of 4 slots.

**Signature of Inspector:**  

See additional sheet for pumping test data.
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1963

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

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

OWNER: BIG SKY OF MONT. INC. Address: BOZEMAN, MONTANA
Driller: VAN DIJKEN DRILLING CO, Address: BOZEMAN, MONTANA

Date of Notice of appropriation of groundwater: none
Date well started: 8/4/70 Date completed: 8/6/70

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

Water use: Domestic Municipal Stock Irrigation Industrial Drainage Other Test hole

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: none
Shut-in Pressure for Flowing Well: none
Pumping Water Level: none

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

How Tested: Bailer
Length of Test: 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Drill cuttings outside of casing.

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).

LICENSE NO. 1
Driller's License Number

Driller's Signature: [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, tissue copy to be retained by driller.

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

**JOB NO.** 70-31  
**PROJECT** Big Sky of Montana  
**UNIT**  
**LOCATION** Downstream of proposed dam location  
**NAME OF DRILLER** Van Dyken  
**DATE HOLE** Started 2-4-70, Completed 8-6-70

<table>
<thead>
<tr>
<th>ELEVATION (Ft)</th>
<th>DEPTH (Ft)</th>
<th>LEGEND</th>
<th>CLASSIFICATION OF MATERIALS</th>
<th>% COREBOX OR RECov, SAMPLE NO.</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td></td>
<td></td>
<td>CLAY, Gravely; with boulders, dry, medium compact</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.0</td>
<td></td>
<td></td>
<td>GRAVEL, Sandy; considerable clay, moist, water at 19', medium compact</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.0</td>
<td></td>
<td></td>
<td>GRAVEL, Sandy; clean, sand lenses saturated, medium loose, becomes angular at 38.0'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>31.0</td>
<td></td>
<td></td>
<td>SHALE; claystone hard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>44.0</td>
<td></td>
<td></td>
<td>Bottom of Hole</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Casing perforated 38'-29'.  
- 11 rows of 4 slots.  
- Bailing test at 45', 50 g.p.m., 10' drawdown.
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

BIG SKY OF MONT.
Owner
INC. Address BOZEMAN, MONTANA
Driller VAN DYKEN DRILLING CO., Address BOZEMAN, MONT.
Date of Notice of appropriation of groundwater
Date well started... Date completed... 7/26/70 7/27/70
Type of well Drilled Equipment used Cable tools
Water use: Domestic □ Municipal □ Stock □ Irrigation □
Industrial □ Drainage □ Other □ Test hole

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

**LOG**

<table>
<thead>
<tr>
<th>Depth (feet)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-3'</td>
<td>Soils</td>
</tr>
<tr>
<td>31-9'</td>
<td>Buff color clay with boulders embedded</td>
</tr>
<tr>
<td>19-22'</td>
<td>Buff color clay bound gravels &amp; boulders</td>
</tr>
<tr>
<td>22-29'</td>
<td>Claybound mushy sands. Some gravels color</td>
</tr>
<tr>
<td>29-31'</td>
<td>Silt, sand &amp; gravels. Some Water color</td>
</tr>
<tr>
<td>31-37'</td>
<td>Fine sands, Rust color</td>
</tr>
<tr>
<td>37-38'</td>
<td>Shale sand.</td>
</tr>
<tr>
<td>38-45'</td>
<td>Sandstone, Water</td>
</tr>
<tr>
<td>45-70</td>
<td>Colorado shale</td>
</tr>
</tbody>
</table>

**WELL NO. 1**

<table>
<thead>
<tr>
<th>Depth (feet)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-3'</td>
<td>Soils</td>
</tr>
<tr>
<td>31-9'</td>
<td>Buff color clay with boulders embedded</td>
</tr>
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<td>19-22'</td>
<td>Buff color clay bound gravels &amp; boulders</td>
</tr>
<tr>
<td>22-29'</td>
<td>Claybound mushy sands. Some gravels color</td>
</tr>
<tr>
<td>29-31'</td>
<td>Silt, sand &amp; gravels. Some Water color</td>
</tr>
<tr>
<td>31-37'</td>
<td>Fine sands, Rust color</td>
</tr>
<tr>
<td>37-38'</td>
<td>Shale sand.</td>
</tr>
<tr>
<td>38-45'</td>
<td>Sandstone, Water</td>
</tr>
<tr>
<td>45-70</td>
<td>Colorado shale</td>
</tr>
</tbody>
</table>

**PERFORATIONS**

<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>Evident Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6-5/8&quot;</td>
<td>0</td>
<td>45&quot;</td>
<td>1&quot; 22&quot; slots</td>
</tr>
<tr>
<td>0.D.</td>
<td>17/lb per ft. tested</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Shut-In Pressure for Flowing Well** None

**Pumping Water Level** 18' feet at 45 gal. per minute

**Discharge in gal. per min. of Flowing well** None

**How Tested** Bailer

**Length of Test** 2 hours

**Remariks:** (Gravel packing, cementing, packers, type of shutoff) Drill cuttings outside of casing

**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).

**LICENSE NO. 1**

Driller's License Number

Driller's Signature

48-286
State of Montana
County of Gallatin

Filed: April 1, 1977
at 10:30 o'clock P.M.

By: Alvin M. Keragan, Deputy

Fee: $50.00

Perforated 18 rows of 4 slots each, 44,000 feet, 5 g.p.m., 60% recovery.
# LOG OF EXPLORATION BORING

## Job No.: 70-31

### Drill Type:
- Soil: Cable Tool
- Rock: Cable Tool

### Project:
- Big Sky of Montana

### Size, Type of Bit:
- 5"

### Casing Size:
- 6"

### Total No. of Overburden Samples Taken:
- Disturbed: 0
- Undisturbed: 0

### Total Core Recovery for Boring (%):
- 0

### Remarks:
- Classification by driller generally confirmed by inspector

<table>
<thead>
<tr>
<th>Elevation</th>
<th>Depth</th>
<th>Legend</th>
<th>Classification of Materials</th>
<th>% Core Box or Sample Recovered</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td></td>
<td></td>
<td>Top Soil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.0</td>
<td></td>
<td></td>
<td>GRAVEL, clayey; with boulders and cobbles, compact</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
<td></td>
<td>CLAY, Sandy; some gravel, wet, compact</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22.0</td>
<td></td>
<td></td>
<td>CLAY, gravelly; some sand, wet, soft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25.0</td>
<td></td>
<td></td>
<td>SAND, silty; with gravel, wet, medium loose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32.0</td>
<td></td>
<td></td>
<td>SHALE, hard</td>
<td></td>
<td>Bailing test with hole at 40' - 20 g.p.m</td>
</tr>
<tr>
<td>35.0</td>
<td></td>
<td></td>
<td>SANDSTONE; medium hard, fine grained; andesite at 44.5</td>
<td></td>
<td>Perforated 15 rows of 4 slots each 44' - 34' hole at 45', bailing test 45' g.p.m., 10' drawdown</td>
</tr>
<tr>
<td>45.0</td>
<td></td>
<td></td>
<td>Bottom of Hole</td>
<td></td>
<td>See additional sheet for pumping test data</td>
</tr>
</tbody>
</table>

### Hole No.: DH-1

### Location:
- west of North Fork Bridge

### Unit:
- Water Supply - Meadow Village

### Name of Driller:
- Van Dyken

### Elevation Top of Hole:
- 64.0'

### Groundwater:
- 0.0'

### Date Started:
- 7-23-70

### Date Completed:
- 7-27-70

### Signature of Inspector:
- Diekman
**Notice of Completion of Groundwater Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1968

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

**Owner:** BIG SKY OF MONT., INC.  Address: BOZEMAN, MONTANA

**Driller:** VAN DYKE DRILLING CO  Address: BOZEMAN, MONTANA

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

**Date well started:** 8/7/70  **Date completed:** 8/9/70

**Type of well Drilled:** Equipment used: **Cable tools**

- **Water use:** Domestic  Municipal  Stock  Irrigation  Industrial  Drainage  Other  **Test hole**

Indicate on the diagram the character and thickness of the different strata met 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: Description of Drilled Rocks

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Cable Tools</th>
<th>From (Foot)</th>
<th>To (Foot)</th>
<th>PREPARATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>State Water Level for non-flowing well 33` feet.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Shut-In Pressure for Flowing Well <strong>NONE</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Pumping Water Level 19<code> feet at 200</code> gal. per minute.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Discharge in gal. per min. of flowing well <strong>NONE</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>How Tested  <strong>Turbine test pump</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Length of Test  <strong>20/4 hours</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Remarks: (Gravel packing, cementing, packers, type of shutoff) <strong>Drill cuttings outside of casing.</strong></td>
</tr>
</tbody>
</table>

**T.D. 50`**

**T.D. 50`**

**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.

---

**LICENSE NO. 1**

Driller's License Number  
Driller's Signature  

---
State of Montana
County of Gallatin

Filed April 1, 1971
at 12:45 o'clock P.M.

Carl L. Stucky

Clerk & Recorder

By Dale M. Kragan

Deputy

Fee $.50 add.
# LOG OF EXPLORATION BORING

**JOB NO. 70-31**

**HOLE NO. DH-W-6**

**PROJECT**
Big Sky of Montana

**UNIT**
Water Supply - Meadow Village

**LOCATION**
North of West Fork West of Crail Ranch

**NAME OF DRILLER**
Van Dyken

## REMARKS
Classification by driller generally confirmed by inspector

<table>
<thead>
<tr>
<th>ELEVATION</th>
<th>DEPTH</th>
<th>LEGEND</th>
<th>CLASSIFICATION OF MATERIALS</th>
<th>% CORE RECOVERY</th>
<th>REMARKS</th>
<th>BOX ON RECOV. SAMPLE</th>
<th>SIGNATURE OF INSPECTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>GWL</td>
<td>Top Soil</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.5</td>
<td>12.5</td>
<td>GWL</td>
<td>CLAY, Silty; damp to wet medium firm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23.0</td>
<td>23.0</td>
<td></td>
<td>GRAVEL, Clayey; medium loose, some sand lenses, saturated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30.0</td>
<td>30.0</td>
<td></td>
<td>GRAVEL, Sandy; clean with some sandy lenses, and some clayey seams saturated medium loose</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50.0</td>
<td>50.0</td>
<td></td>
<td>SHALE; claystone</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Bottom of Hole*

See additional sheet for pumping test data

| TOTAL NO. OF OVERBURDEN SAMPLES TAKEN | 0 |
| TOTAL CORE RECOVERY FOR BORING (%) | 0 |

**DATE HOLE**
Started 8-11-70

**COMPLETED HOLE**
Completed 8-12-70

**CLASSIFICATION OF MATERIALS**
Top Soil, CLAY, Silty; damp to wet medium firm

**REMARKS**
Hole at 19.0', bailing test-10 g.p.m.
Hole at 38', bailing test-40 g.p.m.
Hole at 50', bailing test-45 g.p.m.
at 1' drawdown

**REMARKS (Drilling time, water loss, depth of weathering, etc. if significant)**

**SIGNATURE OF INSPECTOR**
Vischer
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: BIG SKY OF MONT. INC. Address: Bozeman, Mont.

Date of Notice of appropriation of groundwater: none

Date well started: 7/30/70 Date completed: 8/3/70

Type of well: Drilled Equipment used: Cable tool

(Dee. driven, bored or drilled) (Cable, churn drill, rotary or other)

Water use: Domestic D Municipal D Stock D Irrigation D Industrial D Drainage D Other D Test hole

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From Top (Feet)</th>
<th>To Top (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6 5/8&quot;</td>
<td>0</td>
<td>27&quot;</td>
<td>1/2&quot; x 2&quot; slots</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 16' feet

Shut-in Pressure for Flowing Well: none

Pumping Water Level: 22' feet

at: 20 gal. per minute.

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

How Tested: Baller

Length of Test: 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff). Drill cuttings outside of casing.

NU/SE Sec. 38, T 66, R 3E

Indicate location of well and place of use, if possible. Each small square represents 40 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, tissue copy to be retained by driller.

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

LICENSE NO. 1

Driller's License Number

Driller's Signature
State of Montana
County of Gallatin

Filed: April 6, 1971
at 1:31:42 o'clock P.M.

By: M. M. Keungani
Deputy

Fee $20.00
JOB NO. 70-31

PROJECT
Big Sky of Montana

UNIT
Water Supply - Meadow Village

LOCATION
Condominium area, west end

NAME OF DRILLER
Van Dyken

HOLE NO. DH-W-4

TOTAL NO. OF OVERBURDEN SAMPLES TAKEN
Disturbed 0
Undisturbed 0

TOTAL NO. CORE BOXED
0

TOTAL CORE RECOVERY FOR BORING (%)
0

DATE HOLE
Started 7-30-70
Completed 8-3-70

SIGNATURE OF INSPECTOR
Diekmann

<table>
<thead>
<tr>
<th>ELEVATION</th>
<th>DEPTH</th>
<th>LEGEND</th>
<th>CLASSIFICATION OF MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td></td>
<td></td>
<td>TOP SOIL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CLAY, Gravelly; boulders</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>medium loose, dry</td>
</tr>
<tr>
<td>16.0</td>
<td></td>
<td>GML</td>
<td>CLAY, Gravelly; damp to wet</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>medium loose</td>
</tr>
<tr>
<td>24.0</td>
<td></td>
<td></td>
<td>some boulders at 14'</td>
</tr>
<tr>
<td>27.0</td>
<td></td>
<td></td>
<td>SHALE; gray layered firm,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>damp</td>
</tr>
</tbody>
</table>

Perforated 23 1/2' - 19'
7 rows - 4 slots each row
Bailing test with hole at 27' - 20 g.p.m.

See additional sheet for pump test data
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:
PIG SKY OF MONT., INC.
Address: BOZEMAN, MONTANA

Driller: VAN DYKE DRILLING CO.
Address: BOZEMAN, MONTANA

Date of Notice of appropriation of groundwater: None

Date well started: 7/27/70
Date completed: 7/28/70

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

Water use: Domestic □ Municipal □ Stock □ Irrigation □ Industrial □ Drainage □ Other □ Test hole

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>6&quot;</td>
<td>0</td>
<td>36&quot; &quot;x2&quot; slots</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well:
Shut-in Pressure for Flowing Well: None
Pumping Water Level: 13' feet at 45 gal. per minute.
Discharge in gal. per min. of flowing well: None

Bailer:
How Tested: 2 hours
Length of Test: 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Drill cuttings outside of casing.

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).

LICENSE NO. 1
Driller's License Number

Driller's Signature

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, three copies to be retained by driller.

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

Job No. 70-31

Drill Type: Soil, Cable Tool
Rock: Soil, Cable Tool

Project: Big Sky of Montana
Unit: Water Supply - Meadow Village

Location: East of Crai Ranch animal pens

Casing Size: 5"
Length: 36.0'

Name of Driller: Van Dyken

Classification by driller generally confirmed by inspector

Elevation Depth Legend

1.0' 6.0' 8.2' GWL

Top Soil
CLAY, Gravely; some boulders, dry, compact

CLAY, Gravely; considerable sand, medium firm, moist then wet

GRAVEL, Sandy; gravel small sand lenses, medium loose, saturated, some clayey seams

CLAY, Silty; dry

SAND; then poorly cemented sandstone

Bottom of Hole

Casing left in place

Total No. of Overburden Samples Taken: 0

Total Core Recovery for Boring (%): 0

Total Core Recovered: 0

Thickne of Overburden: 33.0'

Depth Drilled Into Rock: 3.0'

Total Depth of Hole: 36.0'

Remarks:
Boiling test with hole at 17'; 5 g.p.m. No drawdown.

Boiling test with hole at 25'; 15 g.p.m. No drawdown.

Perforations: 25.0' - 30.0'

Signatures:
Name of Inspector: Diekman

[Additional Sheet for Pumping Test Date]
<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>1</td>
<td>Buck Edgar L</td>
<td>SW 2</td>
<td>3282</td>
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</tr>
<tr>
<td>1</td>
<td>Collector Thelma</td>
<td>SW 4</td>
<td>1256</td>
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<td>Kost Ranch</td>
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<td>Wilson Harold N.</td>
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<td>1</td>
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<td>Sec.</td>
<td>Name of Appropriator</td>
<td>Type of Form</td>
<td>County File No.</td>
<td>Remarks</td>
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<td>32</td>
<td>Barlows Lee &amp;</td>
<td>Y-74</td>
<td>1857</td>
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<td>Barlows Vine</td>
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<td>Daves Madeline</td>
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<td>32</td>
<td>Scoville Opey Corp.</td>
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<td>Y-74</td>
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</table>
**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 Assessor 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**
Edgar L. Burch

**Address**
225 W. Main St.    
Bozeman, Mont. 59715

**Date well started**
April 25, 1969

**Date well completed**
April 27, 1969

**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 state number of acres and location or other data (i.e. Lot, Block and Addition).

**ESTIMATED ANNUAL WITHDRAWAL**

<table>
<thead>
<tr>
<th>Size of Well Used</th>
<th>Rise and Fall of Casing</th>
<th>Flow (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; 6 5/8 00' x 27' 17 1/8 above ground</td>
<td>8 ft.</td>
<td>15</td>
<td>27</td>
</tr>
</tbody>
</table>

**Detailed Information**

- **Static water level**: 15 ft.
- **Pumping water level**: 32 ft.
- **Flow rate**: 12 gallons per minute, measured 60 minutes after pumping began.

*Measured from ground level.

Well developed by Pump

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 Signature

Driller's Address
2303 Bridger Drive

Bozeman, Montana    LICENSE NO. 37

**Top of Ground**
(Rev. above sea level)

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 16 Clay &amp; Rock</td>
<td></td>
</tr>
<tr>
<td>16 26 Clay &amp; Gravel</td>
<td></td>
</tr>
<tr>
<td>26 31 Clay &amp; Gravel</td>
<td></td>
</tr>
<tr>
<td>31 32 Rock</td>
<td></td>
</tr>
</tbody>
</table>

**Show exact depth of bottom**
53,337
State of Montana
County of Gallatin
Filed ______________ 1973
at ____________ o'clock P.M.

County Clerk & Recorder

By ____________________________

Fee $____00

#3237
Declaration of Vested Groundwater Rights

1. Harold W. Carlson, doing business as Karat Ranch
2. The beneficial use on which the claim is based: guest ranch, commercial operation, cafe, bar & household, and irrigation.
3. Date or approximate date of earliest beneficial use: first used 1905
4. The amount of groundwater claimed (in miner's inches or gallons per minute): 900 gallon per hour
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. Used to irrigate about 3 acres in Karat Ranch, Lot 2, S.E. corner of Sec. 1, T.68 N., Gallatin County, Harold W. Carlson
6. The date of commencement and completion of the construction of the well, works or other works for withdrawal of groundwater: pipe line completed about 1910.
7. The depth of water table: surface
8. The log of formations encountered in the drilling of each well if available. Not available
9. The depth of each well or other works for withdrawal of groundwater: pipe line is about 1000 ft. long; at spring is wooden spring box with overflow control.
10. The estimated amount of groundwater withdrawn each year: 2,000,000 gallon
11. The log of formations encountered in the drilling of each well if available. Not available
12. Such other information as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None

Signature of Owner: [Signature]
Date: Dec. 30, 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; Quadruplicate for the Appropriorator.
State of Nebraska
County of Gallatin

Filed 12-30-1963
at 8:01 o'clock P.M.

Frank Wilson
COUNTY CLERK & RECORDER

By: Shena (Signature)
Deputy

Fee $200
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

Harold W. & Esther J. Carlssen
Canyon Route
Gallatin Gateway, Mont.

Owner
Address

Driller: Dowe Drilling and Dev., Address: R.R.1, Bozeman, Montana

Date of Notice of appropriation of groundwater: July 13, 1979
Date well started: July 15, 1979

Type of well: Drilled
Equipment used: Cable Tool
(Dog, 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>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>FEET ORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6&quot; LD.</td>
<td>+ 2</td>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 12 feet
Shut-in Pressure for Flowing Well: 12 feet
Pumping Water Level: 12 feet
Discharge in gal. per min. of flowing well: 30 gal. per minute

How Tested: Pumped
Length of Test: 1 hour

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

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

SE 14 T 66 N R 46

(Continue on reverse side)

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).

Driller's License Number

Driller's Signature: Dowe A. Potts

179

Driller's Signature:

4/736 D
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Harold W. Carlsen, doing business as Karl Ranch
Karl Ranch
Gallatin

Lot 9
Sec. 1, T. 68 R. 4 E.

1. Name of Appropriator
2. Address
3. Town
4. County
5. State

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

2. The beneficial use on which the claim is based: guest ranch, commercial operation, cafe, bar, household, and irrigation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1905, continuous ever since.

4. The amount of groundwater claimed (in miner’s inches or gallons per minute): 2000 gallon per hour of continuous operation.

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: irrigates about one acre on Lot 9, Section 1, Township 6 South, Range 4 East, Gallatin County, Montana. Owner is Harold W. Carlsen, doing business as Karl Ranch.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: electric 1 horse power pump located beneath main building.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: well dug in 1905 and completed same year.

8. The depth of water table: 32 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 cased with 4 foot steel casing to depth of 12 feet; concrete; and 1½ inch pipe with sand point below that to depth of 34 feet.

10. The estimated amount of groundwater withdrawn each year: 5,000,000 gallon.

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.

Signature of Owner: [Signature]
Date: Dec. 30, 1963

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

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
State of Montana  
County of Gallatin  

Filed 12-30, 1963  
at 3:00 o'clock  

COUNTY CLERK & RECORDER  
By: 
Fee $ 2.00  
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)

Owner: James H. Delo
Address: Chico, Illinois

Driller: M. E. Jones
Address: Belton

Date of Notice of appropriation of groundwater:
Date well started: Aug 23, 1966
Date completed: Aug 26, 1966

Type of well: Dug, Driven, bored or drilled
Equipment used: Churn, Driv., Dry, etc.

Water use: Domestic [X] 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.

Show exact depth of bottom.

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

41,952
Notice of Completion of Groundwater Appropriation by Means of Well

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

Owner: Jim & Marie Kelley
Canyon Route
Address: Gallatin Gateway

Date of Notice of appropriation of groundwater:

Date well started: Oct 27, 1966
Date completed: Oct 4, 1966

Type of well: 
Equipment used: 
(Dig, driven, bored or drilled)
(Cham drill, rotary or other)

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

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

---

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Drills</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7½</td>
<td>19 1/2</td>
<td>2 above</td>
<td>24</td>
<td>None</td>
</tr>
</tbody>
</table>

---

Kareta Subdivision #2
Lot 2 Sec. 1 T 6 R 4

Indicate location of well and place of use, if possible. Each small square represents 40 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, tissue copy to be retained by driller.

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

---

Driller's License Number

Driller's Signature
Notice of Completion of Groundwater Appropriation by Means of well

DEVELOPED AFTER JANUARY 1, 1963
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Jim & Marie Kelley
Address: Gallatin Gateway

Driller: Harold Hubert
Address: Rt-I Bismarck, Mont

Date of Notice of appropriation of groundwater: Oct 2, 1966
Date completed: Oct 4, 1966

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

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: Perforations

<table>
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<th>Well of</th>
<th>Size of</th>
<th>From</th>
<th>To</th>
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</thead>
<tbody>
<tr>
<td>Drilled</td>
<td>Diameter</td>
<td>(Foot)</td>
<td>(Foot)</td>
</tr>
<tr>
<td>Hole</td>
<td>(Foot)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7" I9 1/4 2 above 24 None
6/5/6 6 D

Static Water Level for non-flowing well 17 feet.
Shut-in Pressure for Flowing Well
Pumping Water Level 24 feet at 19 gal. per minute.
Discharge in gal. per min. of flowing well

How Tested: Pump & bailer
Length of Test: 8 hrs pumping
Remarks: (Gravel packing, cementing, packers, type of shut-off).

Kareta Subdivision #2
Lot 2 Sec S T 6 R 4
Indicate location of well and place of use, if possible. Each small square represents 40 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, tissue copy to be retained by driller.

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

Driller's License Number

Driller's Signature

Driller's Address

Lot, Block and Addition

Number of acres and location or other data (i.e.: Lot, Block and Addition).

USF—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).
**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL**

Developed after January 1, 1962

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

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

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

---

**No Order**

Owner: NAME, Jack & Mary

Address: Canyon St.

Gallatin Gateway, Montana

Date well started: July 5, 1972

Completed: July 6, 1972

Type of well: Drilled

Equipment used: Drilling Tool

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 Hole</th>
<th>Size and Type of Cutting</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 5/8</td>
<td>2 above 81</td>
<td>OD</td>
<td>I lb</td>
<td>NONE</td>
</tr>
</tbody>
</table>

Static water level: 8 feet

Pump water level: 81 feet

at 75 gallons per minute, measured 60 minutes after pumping began.

*Measured from ground level.

Well developed by: **Bailer pump**

Power: 250 volt, 1/4 HP

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

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

EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller’s Signature: [Signature]

Driller’s Address: Rt One

Hubert Drilling

LICENSE NO: 47

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**RESULTS**

Show exact depth of bottom