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, to state, otherwise the form may be returned.

Owner
Address
Date well started
completed
Type of well
Equipment used
Water Use: Domestic □ Municipal □ 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 (e.g., Lot, Block and Addition)

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Depth of Casings</th>
<th>From Foot</th>
<th>To Foot</th>
<th>From Foot</th>
<th>To Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot; x 3&quot; (1)</td>
<td></td>
<td>1</td>
<td>16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static water level
Pumping water level
at 1 gallon per minute, measured minutes after pumping began.

*Measured from ground level.
Well developed by
for
Power: AC 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

LICENSE NO.
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, lest 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: 1955
completed: 1955

Type of well:

Equipment used:

Water Use: Domestic □ Municipal □ 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: 2,160,000 gal.

Top of Ground (feet above sea level)

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Depth of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot; x 3'</td>
<td></td>
<td>1</td>
<td>16</td>
</tr>
</tbody>
</table>

Perforations

Static water level: __ ft.
Pumping water level: __ ft.

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

Preference No. 54766
Show exact depth of bottom

License No. __________
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 21, Montana Session Laws, 1965)

1. JOSEPH VECCHER of 736 WILDFLOWER BILLING
   (Name of Appropriator) (Address) (Town)
   County of YELLOWSTONE 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. 1954 and continues.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) about 200 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.
   25 Tony Acres 1965

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1965 finished 1967.

8. The depth of water table. 18 1/2 feet.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 2 neat casing

10. The estimated amount of groundwater withdrawn each year. 50,000 BBL.

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: 7/31/65

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located. Please answer all questions. If not applicable, so state, otherwise the form will be returned.

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

YELLOWSTONE MOLASSES SERVICE, INC., BOX 404, Address: BILLINGS, MONT. 59103

Owner: YELLOWSTONE MOLASSES SERVICE, INC., BOX 404
Address: BILLINGS, MONT.

Driller: D. PIERCE, Address: BILLINGS, MONT.

Date of Notice of Appropriation of Groundwater
Date well started: Aug. 11, 1961, Date Completed: Aug. 11, 1961

Type of Well: Drilled, Equipment Used: CHURCH

Water Use: Domestic ☐, Municipal ☐, Other ☐, Irrigation ☐

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Cutting</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5'</td>
<td>15' - 6.5'</td>
<td>0</td>
<td>23'</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 16' feet.
Shut-in Pressure for Flowing Well: 7 feet.
Discharge in gal. per min. of flowing well: 70 gallons per minute.
How Tested: BAILEY Length of Test: 30 min.
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation).

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

Show exact depth of bottom.

Driller's License Number

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.
Recently a copy of a groundwater appropriation form, GW 1, Notice of Appropriation of Groundwater

X GW 2, Notice of Completion of Groundwater Appropriation by means of Well

GW 3, Notice of Completion of Groundwater Appropriation without Well

GW 4, Declaration of Vested Groundwater Rights (This form is obsolete and was limited by law to use only through 1965)

was forwarded to this office by the County Clerk and Recorder.

This form is identified by

Owner: Yellowstone Melasses Service, Inc.
Address: Billings, Montana 59103

Location
Document No.: 647915

The form is complete as filed. This is to inform you that your GW form has been received and no further action is necessary on your part.

X The form is incomplete. Please complete the enclosed copy by providing information where indicated, or as noted here and return the corrected copy to the Montana Water Resources Board in Helena.

Please indicate exact location of well site by Township, Range, Section.

Other.

County recording information is missing. Please forward this information to the Montana Water Resources Board in Helena.


Show exact depth of bottom.

23'

Driller's License Number
Reg. No.
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, duplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

YELLOWSTONE MOLASSES SERVICE, INC., Box 404, Billings, Mont. 59103
Owner:

Driller: Roy D. Pierce, Address: BILLINGS, MONT.

Date of Notice of Appropriation of Groundwater: Aug. 11, 1969

Date well started: Aug. 11, 1969

Type of well: Drilled

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

Industrial [ ] Drainage [ ] Stock [ ]

Type of equipment: (Drill, 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):

Water level is encountered, thickness and character of water-bearing strata and height to which water rises in the well:

Static Water Level for non-flowing well: — feet

Shut-in Pressure for flowing well: —

Pumping Water Level: 16 feet at — gal. per minute

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

Raw Test: BAILEY

Length of Test: — days

Remarks: (Drill, 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):

Show exact depth of bottom:

Driller's License Number: —

Driller's Signature: —

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.

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: HENRY JELINEK
Address: 835 LYNCH ST
BILLINGS, MONTANA 59101

Date well started: APR 1955
Completed: APR 1955

Type of well: DRIVEN
Equipment used: Not known

Water Use: Domestic □ Municipal □ 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).

LUNCH ACRES 75, U 29.31

ESTIMATED ANNUAL WITHDRAWAL: 100,000 Gals

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Top of Water Column</th>
<th>From (Ft)</th>
<th>To (Ft)</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>32</td>
<td>0</td>
<td>Not known</td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 16 ft
Pumping water level: 20 ft
at 7 gallons per minute, measured 10 minutes after pumping began.

*Measured from ground level.
Well developed by: C EDM
Power: 3 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: Not known

Driller’s Address: Not known

LICENSE NO: 32

Show exact depth of bottom.
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: Henry Jelinek
Address: 238 Lynch Ave, File: 79744

Date well started
Completed

Type of well: Driven

Equipment used: Not known

Water Use: Domestic, Municipal, Stock, Irrigation

Industrial, Drainage, Other, Garden/Lawn

*Describe

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

Lynch Acres

Estimate Annual Withdrawal: 160,600 Gals

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

Perforations

N

W

E

S

Static water level
Pumping water level
Gallons per minute,
minutes after pumping
began.

*Measured from ground level.

Power: C & C Pump, HP

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

Driller's Signature: 

Driller's Address: 238 Lynch Ave

LICENSE NO....

County: Yellowstone

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

Declaration of Vested Groundwater Rights
(Under Chapter 21, Montana Session Laws, 1965)

LEWIS A. PASCHKE
(Owner of Appropriator)

of 3016 RIVERSIDE DRIVE
(Town)

BILLINGS
(State of)

COUNTY OF

YELLOWSTONE

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:
   Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   1952
   Steady

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

5. If used for irrigation, give the acreage and description of the land to which water has been applied and name of the owner thereof:
   Two-thirds acre
   Tracts 3 & 4, 1941
   Lewis A. or Mary P. Paschke

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   Spring of 1952

8. The depth of water table:
   2 to 11 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 dug and grove
   Depth 30'

10. The estimated amount of groundwater withdrawn each year:
    1,092,000 gallons

11. The log of formations encountered in the drilling of each well if available:
    1/3 feet of dirt
    4/5 feet of gravel and boulder

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: Lewis A. Paschke
Date: 12-31-65

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
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD
NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

(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: Donald H. Pippin
Address: 616 Riverite Dr.

Well: Mont.

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

Type of well: Driven
Equipment used: Other

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

Describe: [space for description]

ESTIMATED ANNUAL WITHDRAWAL: 2,000,000 gal

---

<table>
<thead>
<tr>
<th>Size of Hole</th>
<th>Rise and Fall of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>31&quot; schedule</td>
<td>0 17 7/16 15 17&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 10 ft
Pumping water level: 10 ft

Power: Pump: 4 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: Donald H. Pippin
Driller's Address: 616 Riverite Dr.

[Diagram of well location]

---

Show exact depth of bottom 17 ft
**Water Well Log**

**Owner**: A. A. D. Rahn, Jr., Trustee

**Address**: 646 Highland Park Drive

**Billings**, Montana

**Driller**: Unknown

**Date Started**: 1937

**Date Completed**: 1937

**Location**: Sec. 15 T. 16 R. 26 ¼ sec.

**Tracts**: 2 & 4 in 16 18 26

**11/26/31/4**

**Type of well Drilled**

<table>
<thead>
<tr>
<th>Drilled (pump, driven, or drilled)</th>
<th>Equipment used (churn, drill, rotary, etc)</th>
</tr>
</thead>
</table>

**Water use**

- Domestic
- Municipal
- Stock
- Irrigation
- Industrial
- Drainage
- Other

**Casing**

- 36 ft. to ground level
  - Type: Cast Iron
  - Size: 6'

**Casing**

- ft. to ft.
  - Type:
  - Size:

- ft. to ft.
  - Type:
  - Size:

**Perforated or screened**

- Ft. to Ft. to Ft. to Ft.

**Type of screen or perforations**

- Perforations to about 18 Feet from top.

**Static water level**

- For non-flowing well: 12'

**Shut-in pressure**

- For flowing well: __ lb./sq. in. on: (atm)

**Pumping water level**

- 16' feet at 500 gal. per min.

**How tested**

- Besides the above mentioned well, there are other wells on the farm which have been used occasionally since 1876.

**Length of test**

- 26'

**Remarks**

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

- There has been a well on this place since 1876 of some kind.

---

**Owner**

A. A. D. Rahn, Jr., Trustee
Notice of Completion of Groundwater Appropriation by Means of Well

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

Owner:  
Driller:

Date of Notice of appropriation of groundwater: ______________________
Date well started: ______________________ Date completed: ______________________

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 sand, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, character and number of strata and height to which the water rises in the well.

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, times copy to be retained by driller.

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

[Diagram]

N  E  S  W

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 retained by driller.

Driller’s License Number

[Signature]

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

Owner: Otto Schield
Address: 4429, Franke Ave
Date of Notice of Appropriation of Groundwater: Dec 1, 1970
Date Well Started: Nov 1, 1970
Date Completed: Dec 1, 1970
Type of Well: Drilled (drill, driven, bored or churn, drill, rotary 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.

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

Static Water Level for non-flowing Well: 10 feet
Shut-in Pressure for Flowing Well: NA
Pumping Water Level: 10' 6" feet at 30 gal per minute
Discharge in gal. per min. of flowing well: NA
How Tested: 3 Mar, 1971, 60 minutes
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation).

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
STATE OF MONTANA: ss.
County ofYellowstone
This instrument was filed in my office
in APR. 24. 1912
at 3:20 p.m.

DEPRED. M. KLUNDT
County Clerk & Recorder

By
Deputy

905626
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 filled by the owner with the County Clerk and Recorder in the county in which the well is located, lest 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

Date well completed

Type of well

Equipment used

Water Use

*Describe

USE

ESTIMATED ANNUAL WITHDRAWAL

PERFORATIONS

Top of Ground

ESTIMATED ANNUAL WITHDRAWAL

USE

PERFORATIONS

Driller’s Signature

Driller’s Address

LICENSE NO.

BILLINGS, MONTANA
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Richard Henderson, Address: 33523 Fish Creek Rd., Billings, MT
Driller: A. D. Drilling, Address: 33523 Fish Creek Rd., Billings, MT

Date of Notice of Appropriation of Groundwater
Date well started: 3/15/71, Date Completed: 3/15/71

Type of well: Driven, Equipment Used: Driven
Water Use: Domestic, Municipal, Other, Irrigation

<table>
<thead>
<tr>
<th>Depth of Drilled Hole</th>
<th>Size and Weight of Drill</th>
<th>Type of Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>23</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 12 feet
Shut-in Pressure for Flowing Well
Pumping Water Level: 7 feet at 25 gal. per minute
Discharge in gal. per min. of flowing well
How Tested: Pump
Length of Test: 48 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: 118
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.

49032
**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL**

(Developed after January 1, 1962)

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.

| Date well started | 5-23-73 | GW 1: 4:59 p.m. |
| Date well completed | 5-23-73 |
| Type of well | Drilled |
| Equipment used | Driller |
| Describe | To be filled in |
| ESTIMATED ANNUAL WITHDRAWAL | 0,000,000 gal. |
| Top of Ground | Water at 12 ft |
| Static water level | 10 ft |
| Pumping water level | 29 ft |
| Measured from ground level | 15 gallons per minute |
| Minutes after pumping began | Measured from ground level |
| Power | Pump: 15 hours |
| Remarks | Gravel packing, cementing, packers, type of shut-off |

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

**Driller's Signature**: [Signature]

**Driller's Address**: [Address]
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, 1963
(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: J. M. Killeen
Address: 438 E. 7th St.
WELL: 1029 Armstrong
Completed: 5-21-73

Type of Well: Driven (Bore, driven, bored or drilled)
Equipment used: Driller (Chop drill, rotary or other)

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

Describe: (Sump, screen, cementing, gravel packers, type of pump, etc.)

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

AG. Center, Lot 2 Bk. 1

ESTIMATED ANNUAL WITHDRAWAL: 100,000 gallons

<table>
<thead>
<tr>
<th>Site of Drilled</th>
<th>Size of Hole</th>
<th>Date</th>
<th>Depth (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Screen and</th>
<th>Depth of</th>
<th>From</th>
<th>To</th>
<th>1/4 Cut</th>
<th>20</th>
<th>22</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 ft.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 10 ft.
Pumping water level: 14 ft.
at 15 gallons per minute,
measured minutes after pumping began.

*Measured from ground level.
Well developed by PUMP
for 8 hours.

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

Driller's Signature: LaCamolett
Driller's Address: 14223 W. Fond du Lac Rd. Blk 5

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

Show exact depth of bottom

LICENSE NO. 19-78

55-105
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**: Henry H. Knoblauch

**Address**: Broadwater Mont

**File No.**: 9-385-2

**Well Drilled**:

- **Date well started**: 5-21-73
- **Date well completed**: 5-22-73
- **Type of well**: Driven
- **Equipment used**: Driven

**Water Use**:

- Domestic
- Municipal
- Stock
- Irrigation
- Industrial
- Drainage
- Other

**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**

- **Multiple of 10,000 gallons**: 7,816

**Location of Well and Place of Use**

- **Top of Ground**: 6' 9" Top Soil
- **9' 22" Sand and Clay

**Driller's Signature**: 

**Driller's Address**: 14023 Remindup Rd Bliss

**License No.**: 188

**Power**: Pump

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

**Showing exact depth of bottom**
STATE OF MONTANA,)
County of Yellowstone,

This instrument was filed in my office
this Day of , 19
at o'clock

MIRKLE E. KLONDE
Essex Clerk & Revisor

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

1. J. H. Miller, of Box 41, Billings
   (Name of Appropriator) (Address) (Town)
   County of Yellowstone, 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: Stack water

   3. Date or approximate date of earliest beneficial use and how continuous the use has been: 1925, 100 gal.

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

   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: Hand pump.

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1925.

   8. The depth of water table: 18 ft. 0 in.

   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: Type: Applied, Size: 6 in., Depth: 24 ft.

   10. The estimated amount of groundwater withdrawn each year: Well No. 10, 4.5 c.e.

   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: Not applicable.

   Signature of Owner: [Signature]
   Date: [Date]

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.
Please answer all questions. If not applicable, so state, otherwise the form will be returned.

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

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

1. J.H. Miller of R.R. Box 41 Billings
   County of Yellowstone
   State of Montana
   (Name of appropriator)
   (Address) (Town)

   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1963, 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
   Jan. 31, 1961

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

5. If used for irrigation, give the arrangement 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 ________________

   NE 1/4 NW 1/4 Sec. 17 T 15 N R 26 E

   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 ________________

8. The depth of water table ________________ 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
   ________________ ft. deep
   ________________ ft. deep

10. The estimated amount of groundwater withdrawn each year ________________ gallons

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 School of Mines and quadruplicate for the Appropriator.
### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. **Till Miller**, of PO Box 41, Billings, MT
   - **County of Yellowstone**: MT

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

   - **Name of Approprietor**: Till Miller
   - **Address**: PO Box 41, Billings, MT
   - **County**: Yellowstone

<table>
<thead>
<tr>
<th>N</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Declaration Details

- **County of**: Yellowstone
- **State of**: Montana

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   - **Date**: 1955
   - **Use**: Irrigation
   - **Continued?**: Yes

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
   - **Gallons per minute**: 5

5. If used for irrigation, give the acreage and description of the land to which water has been applied and name of the owner thereof
   - **Acreage**: 10
   - **Description**: Crop irrigation
   - **Name of Owner**: Ethel S. Miller

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

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

8. The depth of water table
   - **Water Table Depth**: 15 ft

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
   - **Type**: Drilled
   - **Size**: 6 in
   - **Depth**: 21 ft

10. The estimated amount of groundwater withdrawn each year
    - **Withdrawn**: Yes

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

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
    - **Reference**:

**Signature of Owner**: Ethel S. Miller

**Date**: Dec 9, 1961

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

Owner: Barney K. Morse
Address: 1137 Arlington Dr., 1935 Wine Makers Lane

Driller: J. P. DRILLING
Address: BILLINGS, MONT.

Date of Notice of Appropriation of Groundwater: 7/1/1971
Date well started: 7/1/1971
Date well completed: 7/1/1971

Type of well: Driven
Equipment Used: Drill

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.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Depth of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 5/8&quot;</td>
<td>8 1/2&quot;</td>
<td>0</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 12 feet
Shut-In Pressure for Flowing well:
Pumping Water Level: 10 feet at 15 gal per minute.
Discharge in gal. per min. of flowing well:
How Tested: Pump
Length of Test: 12 HRS

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

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

Show exact depth of bottom.

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 Yellowstone.

This memorial was filed in my office
this 22nd day of July, 1911.

MICHAEL M. KLUNDTE,
County Clerk & Recorder.

By ___________, Deputy.

[Signature]

[Page Number]
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Driller</th>
<th>Address</th>
<th>Date of Notice of Appropriation</th>
<th>Date well started</th>
<th>Date Completed</th>
<th>Type of well</th>
<th>Equipment Used</th>
<th>Water Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>L.M. Mitton</td>
<td>Billings MT</td>
<td>D.B. Pienke</td>
<td>Billings MT</td>
<td>5/1/70</td>
<td>5/1/70</td>
<td>5/1/70</td>
<td>DRILLED</td>
<td>CHURN, DRILL, ROTARY OR DRILLED</td>
<td>DOMESTIC</td>
</tr>
</tbody>
</table>

- **Type of well:** DRILLED
- **Equipment Used:** CHURN, DRILL, ROTARY OR DRILLED
- **Water Use:** DOMESTIC

---

**Diagram:**
- **Static Water Level for non-flowing Well:** 8.7 feet
- **Shut-in Pressure for Flowing Well:** 50 psi
- **Pumping Water Level:** 20 feet at 10 gal per minute
- **Discharge in gal per min of flowing well:**
- **How Tested:** BA/AR
- **Length of Test:** 210 days
- **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)

---

**Exactly depth of bottom:**

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

---

**Show exact depth of bottom:** 963209

**Driller's License Number:** 1170

---

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.

**Signed:** Driller's Signature
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: HAN MULLEN
Address: BILLINGS, MONT.

Driller: RAY D. PETERS
Address: BILLINGS, MONT.

Date of Notice of Appropriation of Groundwater

Date well started: 5/4/70
Date Completed: 5/4/70

Type of Well: Drilled
Equipment Used: Chuck, drill, rotary or other

Water Use: Domestic ☑, Municipal ☑, Other ☐, Irrigation ☑

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

- Indicate location of well and place of use, if possible. Each small square represents 10 acres.
- Show exact depth of bottom.

Discharge in gal. per min. of flowing well

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).

- Static Water Level for non-flowing Well: 15'
- Shut-in Pressure for Flowing Well
- Pumping Water Level: 20 ft
- Length of Test: 30 min
- Remarks

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, v.
County of Yellowstone.
This instrument was filed in my office
this 4, 1970 of 10
at 1:40 p.m.
MERLE A. KLUND
Clerk of Court & Recorder
By: Deputy
Montana Bureau of Mines and Geology
Butte, Montana

Water Well Log

Owner: Lillian M. Morton  Address: 122 S 36th, Billings, Montana
Driller: George McCracken  Address: Billings, Montana
Date Started: 3-15-60  Date Completed: 3-17-60
Location: T. 1 S. 26 R. 1/4 sec.

Type of well:  driven
Equipment used:  drill

Water use:  Domestic  Municipal  Stock  Irrigation

Casing:  ft. to  ft.  Type  Size

Perforated or screened:  Ft.  to  ft.  Ft.  to  ft.

Type of screen or perforations:

Static water level, for non-flowing well:  25  feet.

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

Pumping water level  25  feet at  gal. per min.

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
Form No. 18
8-60

T. 1 South    R. 26 East
County       Yellowstone

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

Water Well Log

Owner: Lillian H. Morton
Address: 122 S 36th, Billings, Montana

Driller: George McCracken
Address: Billings, Montana

Date Started: 3-15-58
Date Completed: 3-17-58

Location: Sec. 16 T. 15 R. 26 E 1/2 sec.

Type of well: driven
Equipment used: drill

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

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

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

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

Perforated or screened: Ft. _______ to Ft. _______ Ft. _______ to Ft. _______

Type of screen or perforations: __________________________

Static water level, for non-flowing well: _______ feet.

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

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

How tested: __________________________

Length of test: __________________________

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

(over)
File No.

STATE WATER CONSERVATION BOARD
DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(under Chapter 21, Montana Session Laws, 1965)

1. Benjamin H. Hogan of Billings, P.B. Boyce, (Name of Appropriate)
County of Yellowstone, State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1965, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1958

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 40 gals 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: August 1958

8. The depth of water table: 12 ft

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Drilled well, 44 feet

10. The estimated amount of groundwater withdrawn each year: 100,000 gallons

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: Benjamin H. Hogan
Date: Oct. 30, 1965

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located. Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and Geology for the Approporator.
**Notice of Completion of Groundwater Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1969

(Under Chapter 237, Montana Session Laws, 1961)

Owner: State Highway Commission
Address: Helena, Montana

Date of Notice of appropriation of groundwater: August 23, 1966
Date well started: August 17, 1966
Date completed: August 21, 1966

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

**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.

**Productions:**

<table>
<thead>
<tr>
<th>Size of</th>
<th>She and</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hole</td>
<td>Width</td>
<td>(Feet)</td>
<td>(Feet)</td>
</tr>
<tr>
<td>8&quot; ID</td>
<td>Steel</td>
<td>20.58 lbs</td>
<td>0.0'</td>
</tr>
<tr>
<td></td>
<td></td>
<td>per foot</td>
<td></td>
</tr>
</tbody>
</table>

10 ft. No. 12 slot
silocon red brass well
screen set from 31.2'
to 31.2" with bail
bottom & lead packer

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

**Shut-in Pressure for Flowing Well**

**Pumping Water Level**
16.0 feet
at 50 gal. per minute

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

**How Tested:** Pumped
Length of Test: 12 hr.

**Remarks:** (Gravel packing, cementing, packers, type of shutoff, screen size determined by sieve analysis)

**WATER ANALYSIS**

<table>
<thead>
<tr>
<th>Component</th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pheosolthalein Alkalinity</td>
<td>3.6</td>
</tr>
<tr>
<td>Methyl Orange Alkalinity</td>
<td>8.8</td>
</tr>
<tr>
<td>Total Hardness</td>
<td>1586 ppm CaCO3</td>
</tr>
</tbody>
</table>

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

**Remarks:** (Continue on reverse)

**Show exact depth of bottom.**
42.0' Bottomed hole in gray shale.

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: Hall's, Exp.
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Montana Highway Commission
Address: Helena, Montana

Driller: Montana Highway Commission
Address: Helena, Montana

Date of Notice of appropriation of groundwater: September 7, 1966

Date well started: August 23, 1966
Date completed: September 6, 1966

Type of well: Churn Drill

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>
</tr>
</thead>
<tbody>
<tr>
<td>Steel 8&quot; ID</td>
<td>28.55 lbs per foot</td>
<td>0.0</td>
<td>30.7</td>
</tr>
<tr>
<td>10.0 ft. No. 12 Silt 8&quot; silty red clay well screen set from 25.0' to 39.0' with well bottom &amp; lead packer.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well 10.7 feet

Shut-in Pressure for Flowing Well
Pumping Water Level 12.2 feet

Discharge in gal. per min. of flowing well

How Tested: Pumped
Length of Test: 12 hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff, screen slot size, determined by slice analysis)

WATER ANALYSIS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph</td>
<td>7.9</td>
</tr>
<tr>
<td>CO2</td>
<td>None</td>
</tr>
<tr>
<td>Hardness</td>
<td>20.7 ppm</td>
</tr>
</tbody>
</table>

(Continued on reverse side)

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

17/4 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.

File No: 18 B 26 E

STATE WATER CONSERVATION BOARD

County: Yellowstone

SEP 27 1966

DEPARTMENT OF NATURAL RESOURCES

STATE OF MONTANA

STATE WATER CONSERVATION BOARD

NOTICE OF COMPLETION OF GROUNDWATER

Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

U.S. DEPARTMENT OF AGRICULTURE

STATE OF MONTANA

STATE WATER CONSERVATION BOARD
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: A. I. Spurway
Address: Rte 1, Bly

Driller: C. W. 
Address: Billing

Date of Notice of Appropriation of Groundwater: 
Date well started: Date Completed:

Type of well: Equipment Used:
(Chin, drive, 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>Rise and Weight of Cutting</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Statue Water Level for non-flowing Well: feet.
Shut-in Pressure for Flowing Well:
Pumping Water Level: feet at gal. per minute.
Discharge in gal. per min. of flowing well:
How Tested: Length of Test: HR

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

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.

Driller's License Number: 91885
Driller's Signature: 

Filed for record the day of A.D. 19_ at o'clock P.M.

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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.
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, as indicated in red on the attached form, the complete dates that the well construction was started and completed.

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

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

Driller: Joe Brown
Address: 456 Oak Ave, Helena, MT 59601

Date of Notice of Appropriation of Groundwater: Oct 22, 1961

Date Well Started: Oct 23, 1961
Date Completed: Oct 23, 1961

Type of Well: Drilled (dig, driven, bored or drilled)

Equipment Used: Churn, drill, rotary or other

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

Static Water Level for non-flowing Well: 15 feet
Shut-In Pressure for flowing Well:
Pumping Water Level:
Discharge in gal. per min. of flowing well:
How Tested: Length of Test:

Remarks:

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

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.

[Signature]
Driller's License Number: 91885
Driller's Signature: Jerry Jones

[Signature]
Deed No.: 91885
Filed for: 1876
A.D.: 1856

[Signature]
M. J. T. Spurway
Address: 123 Main St, Bozeman, MT 59715

[Signature]
J. W. Brown
Address: 456 Oak Ave, Helena, MT 59601

[Signature]
Montana Department of Natural Resources and Conservation

[Signature]
Montana Department of Natural Resources and Conservation
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

**Owner:**

**Address:**

**Driller:**

**Address:**

**Date of Notice of Appropriation of Groundwater:**

**Date Well Started:**

**Date Completed:**

**Type of Well:**

**Equipment Used:**

**Water Use:**

- Domestic
- Municipal
- Industrial
- Drainage
- Other
- Irrigation

**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.

### Perforations

<table>
<thead>
<tr>
<th>Size of</th>
<th>Size and</th>
<th>From</th>
<th>To</th>
<th>Kind of</th>
<th>Seed</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bore Ho</td>
<td>Weight of</td>
<td>(Feet)</td>
<td></td>
<td>(Feet)</td>
<td>(Feet)</td>
<td>(Feet)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Static Water Level for Non-Flowing Well:** feet.
- **Shut-in Pressure for Flowing Well:** feet at 4000 lbs.
- **Pumping Water Level:** feet at 4000 lbs.
- **Discharge in gal. per min. of flowing well:**
- **How Tested:**
- **Length of Test:**
- **Can pump:**

**Show exact depth of perforation.**

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

**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.**

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

(under Chapter 237, Montana Session Laws, 1961)

**Owner:**
- Name: [Redacted]
- Address: 123 Main St., Bozeman, MT 59715

**Driller:**
- Name: Charles W. Reed
- Address: 456 Pine Rd., Missoula, MT 59801

**Date of Notice of Appropriation of Groundwater:** 5/10/60

**Date Well Started:** 5/10/60

**Date Well Completed:** 5/10/60

**Type of Well:** Driven

**Equipment Used:** Churn

**Water Use:** Domestic

---

### Table: Strata, Water Depth, and Pumping Characteristics

<table>
<thead>
<tr>
<th>Strata</th>
<th>Water Depth</th>
<th>Pumping Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil</td>
<td>30 feet</td>
<td>Discharge = 150 gal/min</td>
</tr>
<tr>
<td>Sand</td>
<td>60 feet</td>
<td>Discharge = 300 gal/min</td>
</tr>
<tr>
<td>Clay</td>
<td>90 feet</td>
<td>Discharge = 450 gal/min</td>
</tr>
</tbody>
</table>

**Static Water Level for Non-flowing Well:** 40 feet

**Shut-in Pressure for Flowing Well:** 15 feet

**Pumping Water Level:** 14 feet

**Discharge:** 300 gal/min

**How Tested:** Change Pump

**Length of Test:** 4 hours

**Remarks:**
- Gravel packing, cementing, packers, type of shut-off, 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:** [Redacted]

**Driller's Signature:** [Redacted]

---

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.

4/64 95
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Lee Restad</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Route #1-Billings</td>
</tr>
<tr>
<td>Driller</td>
<td>La. E. Anderson</td>
</tr>
<tr>
<td>Address</td>
<td>513 Ave. C</td>
</tr>
<tr>
<td>Date Started</td>
<td>Nov. 8-1946</td>
</tr>
<tr>
<td>Date Completed</td>
<td>Nov. 10-1946</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 19 T1 S 26 E 1/4 sec Lot 7</td>
</tr>
</tbody>
</table>

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

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

Industrial [ ] Drainage [ ] Other [ ]

<table>
<thead>
<tr>
<th>Casing: 0 ft to 30 ft</th>
<th>Type:</th>
<th>Driven</th>
<th>Size: 6&quot;</th>
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</thead>
<tbody>
<tr>
<td>Casing: 30 ft to 60 ft</td>
<td>Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing: 60 ft to 90 ft</td>
<td>Type:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Type of screen or perforations: Slotted

Static Water level, for non-flowing well: 10 feet

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

Pumping water level: 14 feet at 30 gal. per min

How tested: 1" Pump

Length of test: 2 Hours

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

(over)
**WATER WELL LOG**

<table>
<thead>
<tr>
<th>Owner</th>
<th>Art Spurrung</th>
<th>Address</th>
<th>Route 1, Billings, MT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>Owner</td>
<td>Address</td>
<td>Samuel</td>
</tr>
<tr>
<td>Date Started</td>
<td>May 1960</td>
<td>Date Completed</td>
<td>May 1960</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 19 T 15 R 26 E</td>
<td>Sec. 7</td>
<td></td>
</tr>
<tr>
<td>Type of well</td>
<td>Drilled</td>
<td>Equipment used</td>
<td>Hand Drilled</td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic □</td>
<td>Municipal □</td>
<td>Stock □</td>
</tr>
<tr>
<td></td>
<td>Industrial □</td>
<td>Drainage □</td>
<td>Other:</td>
</tr>
<tr>
<td>Casing</td>
<td>L to 15 ft</td>
<td>Type: Galv</td>
<td>Size: 1 1/4&quot;</td>
</tr>
<tr>
<td></td>
<td>ft. to ft.</td>
<td>Type:</td>
<td>Size:</td>
</tr>
<tr>
<td></td>
<td>ft. to ft.</td>
<td>Type:</td>
<td>Size:</td>
</tr>
<tr>
<td>Perforated or Screened: Ft.</td>
<td>15 to 17 Ft.</td>
<td>Type: Sand, Grout and Screen</td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>14 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>14 lb./sq. in. on:</td>
<td>(date)</td>
<td></td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>14 ft. at</td>
<td>gal. per min</td>
<td></td>
</tr>
<tr>
<td>How tested:</td>
<td>Pumped with 1&quot; Pump</td>
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<td></td>
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<tr>
<td>Length of test:</td>
<td>16 hrs.</td>
<td></td>
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</tr>
<tr>
<td>Remarks:</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**County:** Yellowstone

**Received**

**State Engineer**

**Butte, Montana**