**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 filed in 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:** Don Claming

**Address:** Susan Lake

**Date Well Started:** June 21, 1973

**Date Well Completed:** June 23, 1973

**Type of Well:** Drilled

**Equipment Used:** Cable tool (Chis, drive, bore or drill)

**Water Use:** Domestic

**Use:** 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**

<table>
<thead>
<tr>
<th>Use of Well</th>
<th>Size and Width of Hole</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Kind Size</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 in</td>
<td>6 in</td>
<td>0</td>
<td>30</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static water level:** 4 ft.*

**Pumping water level:** 11 ft.*

**Rates:** gallons per minute, measured minutes after pumping began.

*Measured from ground level.

**Power:**

**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:** William J. Holm

**Driller's Address:** 201 Bigfork, Mont.

**License No.:** 234

**Show exact depth of bottom:** 30 ft.
Well Report

Don Clifton

to

The Public
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODES, 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.

Frances Gallagher and
Ervin Fast
Owner
Address: P.O. Box 152
Glasgow, Montana 59230

Date well started: 5-18-73

Date well completed: 5-18-73

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).

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: 9,000,000 gallons

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 5/8</td>
<td>18&quot;</td>
<td>42'</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Static water level at 3' above ground level.

Pump water level 3' below static water level, measured for
360 gallons per minute, minutes after pumping began.

Well developed by power pump for one hour.

Power: 1 HP

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

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

A Tract in Lot 2, Section 14

Driller's Signature: ___________ LICENSE NO. 103

Driller's Address: 3015 Swan Lake Rd.

Show exact depth of bottom 42'
DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. George W. Hahn Jr. of Dixon Lake
   (Name of Appropriator) (Address) (Town)

   County of Lake, 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: Aug 10, 1959

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Aug 10, 1959

8. The depth of water table:

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

10. The estimated amount of groundwater withdrawn each year:

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

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

Signature of Owner: George W. Hahn Jr.
Date: 1/19/66

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.
Water Report
George M. Kelso, Jr.
To The Public

STATE OF MONTANA
County of Lake
Filed on the 3rd day of January
At 10:42 a.m.钟

ETHEL M. HARDIN
County Clerk and Recorder
By: R. ANDERSON
Deputy
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: WAYNE MARI
Deer Lick Resort
Address: SWAN LAKE
MONTANA 59911

Date well started: APRIL 16, 1952
Completed: APRIL 16, 1952

Type of well: drilled

Equipment used: rotary

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

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: 6,000 gal

<table>
<thead>
<tr>
<th>Size of Defined Area</th>
<th>Size and Weight of Casing</th>
<th>Firm (Ft)</th>
<th>To (Ft)</th>
<th>Type of Shutoff</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 60 ft
Pumping water level: 80 ft at 18 gallons per minute, measured 8 minutes after pumping began.

*Measured from ground level.

Well developed by cement
for 2 hours.

Power: 10 HP 

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

Cement

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

Driller's Signature: REECE - unknown

Driller's Address: unknown

Note: In Gov. Lot 4 160018
No. 179 of 1600 feet W of Rg
No. 350' of 950 feet W of Rg

Show exact depth of bottom
WAYNE HARI
DEER LICK RESORT

TO

THE PUBLIC

WELL REPORT

STATE OF MONTANA
County of Lesie
Filed on the 10 day of April
A.D. 1972
C. D. "P. HARRIS, Coinc. M.
County Clerk and Recorder

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

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

STATE ENGINEER

Roy W. & Margaret Stahl, a Sequoia Lake

County of __________ State of __________

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

2. The beneficial use on which the claim is based. __________
   4. Household

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

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

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

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

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

8. The depth of water table. __________

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

10. The estimated amount of groundwater withdrawn each year __________

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

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

Signature of Owner __________

Date __________

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
STATE OF MONTANA
County of Lake,
Filed on the 31st day of Dec, A. D. 1932, at 11:30 o'clock A. M.
HAZEL KINNICK
County Clerk and Recorder
By ____________________________

D. F. Drown
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. **Amos L. Devere Taylor**, of Bozeman, Montana
   State of Montana
   County of Lake

   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: **1947 - 1962**

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): **500,000**

   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: **Acreage: 120**

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **Begin 4-17-62, finish 4-19-62**

   8. The depth of water table: **35 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: **240 ft. deep, 3½ feet in diameter**

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

   11. The log of formations encountered in the drilling of each well if available: **Sand & Gravel**

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

   Signature of Owner: **Amos L. Taylor**
   Date: 12-26-62

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 Lake,
Filed on the day of , A.D. 1984, at clock P.M.

By , Recorder
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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Date of Notice of Appropriation of Groundwater:

- Date well started: May 17
- Date completed: May 20

Type of well:
- Drilled
- Equipment Used: Churn Drill
- (Dug, driven, bored 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, 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 Casting</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5</td>
<td>744.18</td>
<td>62</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 9 feet.

Shut-in Pressure for Flowing Well:

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

Discharge in gal. per min. of flowing well:

How Tested:
- Pump

Length of Test: 3 hours

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

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
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: June 1, 1963
Owner: S.K. Koole
Address: Swan Lake, Mont.

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

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. Sub-irrigation water
from Swan Lake, Swan River
and Spring Creek, one acre
N 74° 15' W T 42S R 26W 1/2, Sec. 24,
S 80° 10' E T 42S R 26W 1/2, Sec. 22,
and monow
property now owned by C. Koole

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 since
1890 and prior to that time since
forever immemorial. This is
underground water that sub-irrigates
at least 1000 acres now underbase on
Contractor by C. Koole
Signature of Owner: C. Koole
Date: June 27, 1963

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

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

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

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner:  Norman Martin
Address:  San Fe

Driller:  Robert Hudler
Address:  San Fe

Date of Notice of Appropriation of Groundwater:  4-15-62
Date Well Started:  4-15-62
Date Completed:  4-15-62

Type of Well:  Drilled
Equipment Used:  (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, 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>Site and Weight of Corp.</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>

Static Water Level for non-flowing Well:  
Shut-in Pressure for Flowing Well:  5' 4'
Pumping Water Level:  6' 1' feet at 35 gal. per minute.
Discharge in gal. per min. of flowing well:  

How Tested:  Permanently
Length of Test:  4 min.

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

1 A

Driller's License Number:  Robert Hudson
Driller's Signature:  Robert Hudson

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.
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.

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Date well started</th>
<th>Date well completed</th>
<th>Type of well</th>
<th>Equipment used</th>
<th>Water Use</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8-30-72 GW1</td>
<td>8-28-72</td>
<td>Drilled</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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 Drilled Hole</th>
<th>Size of Top of Bore</th>
<th>To (Ft)</th>
<th>Top of Ground (Ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5'</td>
<td>+7'</td>
<td>63</td>
<td>63</td>
</tr>
<tr>
<td>1.6'</td>
<td></td>
<td>29 33</td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 63 ft. Pumping water level: 57 ft.

Pumping at 320 gallons per minute, measured 60 minutes after pumping began.

*Measured from ground level.

Well developed by: *Mater*

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.

Showing depth of bottom: 51.33 ft.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

United States (Forest Service)
County of Flathead
State of Montana
Bigfork, Montana

1. 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 at Swan Lake Guard Station

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   May 24, 1959

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.
   Water is drawn by a submersible pump on well at the Swan Lake Guard Station. See map for location.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   April 1959 to May 24, 1959

8. The depth of water table:
   One hundred twenty 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:
   None

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:
    Water was found at 23' 70" and 22' 10" at site of well owned by the United States.

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: [Signature]
Date: 5/24/59

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

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

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

(Under Chapter 207, Montana Session Laws, 1961)

**Applicant:**

**Driller:** Madsen Drilling Co. 
**Address:**

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

**Date well started:** 4/16/62  
**Date completed:** 4/26/62

**Type of well:** Drilled  
**Equipment used:** Churn Drill  
(dug, driven, bored or drilled)

**Water Use:**
- Domestic  
- Municipal  
- Other  
- Irrigation  
- Industrial  
- Drainage  
- Stock

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>KIND</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 5/8</td>
<td>6 5/8 OD</td>
<td>0</td>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td>3/16 x 4 ft.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Slots</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing Well:** 42 feet

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

**Pumping Water Level:** 12 feet at 35 gal. per minute.

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

**How Tested:** Pump  
**Length of Test:** 16 hours

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

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

**Show exact depth of bottom.**

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

Date of Appropriation of Groundwater: 1930

Owner: Wesley J. John
Address: Box 124, Storm Lake

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

Date Started: Unknown
Date Completed: Unknown

Describe means of obtaining groundwater without a well: "as by sub-irrigation and other natural processes". Include depth to water when applicable. Rising water of spring is collected in an earthen pool then transported via about 2000 feet of 2" and 1½ galvanized iron pipe to house, barnyard, and garden (gravity diversion).

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.

About 5 acres of lawn and garden served by flooding at assumed duty of 1 cubic foot per second per 60 acres is 0.08 cfs

Water also serves up to 10 people in a fully plumbed house, about 100 head of cattle, horses and milk cows, chickens, geese, and miscellaneous use in cars, etc. Total use estimated 0.1 cfs

Signature of Owner: Wesley J. John
Date: 

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
**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 owner with County Clerk and Recorder in county in which 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.

<table>
<thead>
<tr>
<th>Owner</th>
<th>Business Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highway Dept.</td>
<td>For Administrator's Use</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address</th>
<th>File No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highway Dept.</td>
<td>1328, 282526</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date well started/completed</th>
<th>GW 1</th>
<th>March 8, 1962, 11:00 A.M.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Equipment used</th>
<th>(Drill, rotary or other)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Water Use: Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
</thead>
</table>

*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).*

<table>
<thead>
<tr>
<th>ESTIMATED ANNUAL WITHDRAWAL</th>
<th>50,000 gal.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>PERFORATIONS</th>
<th>Size (In.)</th>
<th>Flow (GPM)</th>
<th>Static Water Level</th>
<th>Pumping Water Level</th>
</tr>
</thead>
</table>

Static water level: Flowed at 20.0 gallons per minute, measured 15 minutes after pumping began.

Pumping water level: 20 ft. above static water level.

Well developed by:成功.

Power: Motor.

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

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

Driller's Signature: Robert Hudson

Driller's Address: 

License No.: 193

Show exact depth of bottom: 50.010
STATE OF MONTANA
HIGHWAY DEPT.

TO
THE PUBLIC

STATE OF MONTANA

HELENA, MONTANA 59601

APRIL 13, 1972

MONTANA HIGHWAY COMMISSION

FILED ON THE 5th DAY OF MARCH
A.D. 1972 AT 11:00 O'CLOCK A.M

SHERI M. HARDING

County Clerk and Recorder

FORREST H. ANDERSON
Governor
Department of Natural Resources
and Conservation
Water Resources Division
Engineering Bureau
Groundwater Division
Sam W. Mitchell Building
Helena, Montana 59601

Gentlemen:

The well reported in the attached log is capped.

This well flowed at the rate of four gallons per minute, but
when pumped at the rate of six gallons a minute the water level
was lowered to 80 feet.

We trust this will complete the information you require.

Yours very truly,

H. J. Anderson
Director of Highways

 cc: W. J. Hebert, Chief-F.M.B., Kalispell

Donald D. Gruel, P.E.
Administrator-Maintenance

Attachment
Notice of Completion of Groundwater Appropriation by Means of Well

Developed after January 1, 1962

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

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

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

Owner:

Address:

Date well started:

completed:

Type of well:

Equipment used:

Water Use:

Industrial

Drainage

Other

Garden/Lawn

*Describe HUMIDITY, EXCESSIVE QUANTITIES, ETC.

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

Estimated Annual Withdrawal:

Top of Ground

Elevation above sea level:

Form filled by driller, last copy to be retained by driller.

Date returned:

Remarks:

Driller's Signature:

Driller's Address:

License No.:

Show exact depth of bottom

50.0 ft
Form No. 18

T. 25N R. 18W

County Lake

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

STATE ENGINEER

Owner State of Montana Address Helena

Driller W. H. Albrecht Address

Date Started December 15, 1961 Date Completed Dec. 22, 1961

Location: Sec. 26 T. 25N R. 18W 1/4 sec. SE1/4

Type of well Drilled Equipment used Churn

(type, driven, bored, or drilled)

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

Industrial [ ] Drainage [ ] Other [ ]

Casing: 0.0 ft. to 31.0 ft. Type Steel Pipe Size 4"

Casing: 31.0 ft. to 41.0 ft. Type "n" Size 4 perf.

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 31.0 to Ft. 41.0 Ft. to Ft.

Type of screen or perforations 1/4" slits - 6" long

Static Water level, for non-flowing well: 3.7 feet.

Shut-in pressure, for flowing well: 1 lb./sq. in. on:

Pumping water level 37.3 feet at 3/4 gal. per min.

How tested: Bailed

Length of test One hour for measurement

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

Bailed approximately 12 hours to develop water inflow in tan silt

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0'</td>
<td>4.0'</td>
<td>Glacial gravel and brown silt clay</td>
<td></td>
</tr>
<tr>
<td>4.0'</td>
<td>9.0'</td>
<td>Loose brown silt clay with some fine gravel</td>
<td></td>
</tr>
<tr>
<td>9.0'</td>
<td>15.0'</td>
<td>Compact gravelly clay with boulders &amp; cobbles</td>
<td></td>
</tr>
<tr>
<td>15.0'</td>
<td>27.0'</td>
<td>Silty sand with traces of fine gravel</td>
<td></td>
</tr>
<tr>
<td>27.0'</td>
<td>61.0'</td>
<td>Tan silt with decreasing gravel content</td>
<td></td>
</tr>
</tbody>
</table>
MONTANA STATE BOARD OF HEALTH
Division of Environmental Sanitation
Helena, Montana

WELL DRILLER'S REPORT

Driller's Registration No. None

Driller W. H. Albrecht
Address Helena

Owner of Well State of Montana

Exact Location of Well Sec. of Section 26, T. 25N, R. 16W

Nearest Post Office Swan Lake County Lake

Water to be Used for Household & Industrial

Drilling Began December 15 Well Finished Dec. 22, 1961

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.

Casing Record

| Size of Pipe | Kind and Weight of Material Used | From (Feet) | To (Feet) | PERFORATIONS
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>Steel Standard</td>
<td>0.0'</td>
<td>31.0'</td>
<td>¼ x 6&quot; slits</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31.0'</td>
<td>41.0'</td>
<td></td>
</tr>
</tbody>
</table>

Describe the type of joints in casing... Steel Couplings

Describe any screens used... ¼" x 6" torch cut slits

Capacity of Well... 3½ gallons per minute
(In Gallons or Feet)

How Determined... 4" Bailor
(Pump, Bailor, etc)

Signed...

Date December 27, 1961

Show exact depth of bottom.
Notice of Completion of Groundwater Appropriation
Without Well
(Under Chapter 237, Montana Session Laws, 1961)

Date of Appropriation of Groundwater: September 15, 1961
G. B. Redd and
Owner: Lena Redd
Address: Swan Lake, Montana
Contractor: NONE
Address of Contractor: NOT APPLICABLE
Date Started: Sept. 1, 1963
Date Completed: Sept. 15, 1963
Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. excavation to depth of 4 feet to uncover underground stream and water is now being withdrawn from such source by means of a pipe operating with a siphon.

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. 25 gal. a minute.
donestic and stock use; use is constant; use
is through 1 inch pipe.

Signature of Owner: Lena Redd
Date: December 11, 1963

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

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

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

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

Filed on the 31st day of Dec.,
A. D. 1943, at 2:00 o'clock A. M.

HAZEL KINNICK
County Clerk and Recorder
By

Deputy

1/20/43
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Smith, Harold</td>
<td>GW 2</td>
<td>205127</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Bean, Jackson</td>
<td>GW 2</td>
<td>195149</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Mullin, Robert</td>
<td>GW 2</td>
<td>163220</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Bean, Franklin</td>
<td>GW 2</td>
<td>191411</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

County: Lake

Twp.: 24 N.
Rge.: 22 W.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Date of Appropriation of Groundwater: 1940
Owner: R. D. Fried
Address: Dayton, Mont.
Contractor (if any): 
Address of Contractor: 
Date Started: Date Completed: 

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. They are natural springs. We piped them into watering tanks. 

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. The quantity of water varies from year to year sometimes the same spring doesn't run. They are generally used in the spring or fall of the year. 

Signature of Owner: Daryl Fried
Date: Sept 30, 1963

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

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

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

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

Filed on the 32nd day of Sept,
A.D. 1963 at 11:30 o'clock A.M

HAZEL BUTLER
County Clerk and Recorder

Dated

200
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Harry & Phyllis M. Smith, of Polson, Mont.

County of Lake, State of Montana

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

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

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

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.
   Not used for irrigable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.
   By gravity from spring and gravel impounded

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

8. The depth of water table Yest Known

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.
   By one pump

10. The estimated amount of groundwater withdrawn each year.
    760,000 gal

11. The log of formations encountered in the drilling of each well if available.
    None

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: Phyllis M. Smith
Date: Nov 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.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Donald Jensen
Address: Elmo, Montana

Driller: Liberty Drilling Co.
Address: Missoula, Montana

Date of Notice of appropriation of groundwater: None filed

Date well started: 6/30/67
Date completed: 7/21/67

Type of well: Drilled
Equipment used: Cable Tools (Dug, driven, bored or drilled)

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

Indicate on the diagram the character and thickness of the different strata and boulders. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Top of Ground

Formations Log:

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 1</td>
<td>Black dirt &amp; gravel.</td>
<td>Imbedded in tan clay.</td>
</tr>
<tr>
<td>1 - 32</td>
<td>Gravel &amp; cobblestones</td>
<td>Imbedded in tan clay.</td>
</tr>
<tr>
<td>32 - 109</td>
<td>Boulder &amp; cobblestones</td>
<td>Imbedded in tan clay.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>109 - 111</td>
<td>Boulder.</td>
<td></td>
</tr>
<tr>
<td>111 - 130</td>
<td>Gravel &amp; cobblestones</td>
<td>Imbedded in tan clay.</td>
</tr>
<tr>
<td>130½ - 133</td>
<td>Boulder.</td>
<td></td>
</tr>
<tr>
<td>133 - 165</td>
<td>Cemented gravel &amp; gravel.</td>
<td>Imbedded in tan clay.</td>
</tr>
<tr>
<td>165 - 171</td>
<td>Clean dry sand.</td>
<td>Imbedded in gravel.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>171 - 182</td>
<td>Gravel imbedded in tan clay.</td>
<td></td>
</tr>
<tr>
<td>182 - 195</td>
<td>Cemented sand &amp; gravel.</td>
<td>Imbedded in tan clay.</td>
</tr>
<tr>
<td>195 - 209</td>
<td>Gravel &amp; cobblestones</td>
<td>Imbedded in tan clay.</td>
</tr>
<tr>
<td>209 - 222</td>
<td>Tan sandy clay and gravel.</td>
<td>Imbedded in gravel.</td>
</tr>
<tr>
<td>222 - 235</td>
<td>Sand and gravel.</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well:

1631 feet.

Shut-In Pressure for Flowing Well:

309 feet.

Pumping Water Level:

32 gal. per minute.

Discharge in gal. per min. of flowing well:

Non-flowing

How Tested:
Pump test

Length of Test:
Eight hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through the open bottom of six inch casing. Wells with open bottom completions in this area can be depended upon to produce clear sand free water year after year as long as they are not overpumped, i.e., they 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).

Stock well

Show exact depth of bottom.

Bottom of hole 235 ft.

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

William E. Oleson

Driller's Signature

42,519
should be pumped at rates less than 25 to 50 percent of the tested capacity of the aquifer.
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:  
(dug, driven, bored or drilled)  
(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, 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>Strata Met with</th>
<th>Depth (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil</td>
<td>0</td>
</tr>
<tr>
<td>Rock</td>
<td>315</td>
</tr>
<tr>
<td>Limestone</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Max. Diameter of Hole</th>
<th>Max. Weight of Core</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>

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

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


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.
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 227, Montana Session Laws, 1961)

Date of Notice of Appropriation of Groundwater

Date well started

Date Completed

Type of wall Drilled

Equipment Used (drill, 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>Strata Met With</th>
<th>Thickness (ft)</th>
<th>Water Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Soil</td>
<td>6</td>
<td>Domestic</td>
</tr>
<tr>
<td>Gravel</td>
<td>12.5</td>
<td>Domestic</td>
</tr>
<tr>
<td>Rock</td>
<td>31.5</td>
<td>Domestic</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well

Shut-in Pressure for Flowing Well

Pumping Water Level

Discharge in gal. per min. of flowing well

How Tested

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

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 Lake

Marilyn Brad

having first been duly sworn, deposes and says, that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Marilyn Brad

Subscribed and sworn to before me, this 9 day of January 1920

E. W. M. Hahmen

Notary Public for the State of Montana.

Residing at

My Commission expires

STATE OF MONTANA

COUNTY OF LAKE

Filed on the 12 day of January A.D. 1920

Hannah Hahmen

County Clerk and Recorder

Hannah Hahmen
Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 317 Montana Session Laws, 1961)

Date of Appropriation of groundwater: 11/10/63

Owner: Frankie Beck
Address: Dayton, Mont.

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

Date Started: Date Completed:

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

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.

Continued

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

Signature of Owner: ______________________________
Date: ______________________________

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

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

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

Original to the County Clerk and Recorder: Duplicate to the State Engineer; Triplicate to the Montana
Bureau of Mines and Geology and Quadruplicate for the Appropmtor.
R92
162032
Water Appropriation
John H. Byers

To
The Public

STATE OF MONTANA
County of Lake
Filed on the 16th day of Feb.,
A. D. 1946 at 10:00 o'clock A.M.
Hazel Kinnick
County Clerk and Recorder
By

Dec. 200
Notice of Completion of Groundwater Appropriation by Means of Well

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Owner: Robert K. Nellen
Address: Missoula, Montana

Driller: O'Keefe Drilling
Address: Butte

Date of Notice of appropriation of groundwater:

Date well started:

Date completed:

June 27, 1966

Type of well: Drilled
Equipment used: Cable Tool
(Managed, driven, bored or drilled)

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

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

Static Water Level for non-flowing well 114 feet.

Shut-In Pressure for flowing well:

Pumping Water Level:

Discharge in gal. per min. of flowing well:

How Tested:

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

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

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

File No. ________________________

DUPPLICATE

LOG

Top of Ground
(Elev. above sea level: _______)

0-2 Soil

2-60 Clay

60-70 Quick Sand
d

70-80 Clay + Blue

80-90 Quick Sand

90-110 Clay

110-120 Quick Sand

120-130 Clay

180-210 Clay - Mud

210-250 Mud - Sandy

250-270 Blue - (sticky)

270-305 Quick Sand

305-308 Sand - (water)

Doc. No. 195119
Filed for record this 2 day of August, A.D. 1974, at 11 o'clock 31.41.

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, thence 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

47473
## DRILLER'S LOG

**Notices of Completion of Groundwater Appropriation by Means of 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, last copy to be retained by driller.

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

### Top of Ground

<table>
<thead>
<tr>
<th>Depth (Feet)</th>
<th>Depth (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.23</td>
<td>Top gravel</td>
</tr>
<tr>
<td>2</td>
<td>Clay, gravel</td>
</tr>
<tr>
<td>6</td>
<td>Sandstone</td>
</tr>
<tr>
<td>112</td>
<td>Clay, gravel</td>
</tr>
<tr>
<td>121</td>
<td>Boulders</td>
</tr>
<tr>
<td>131</td>
<td>Sandstone</td>
</tr>
<tr>
<td>132</td>
<td>Gray rock</td>
</tr>
<tr>
<td>138</td>
<td>Black shale</td>
</tr>
<tr>
<td>235</td>
<td>Gray sand</td>
</tr>
<tr>
<td>240</td>
<td>Gray sand</td>
</tr>
<tr>
<td>250</td>
<td>Black shale</td>
</tr>
<tr>
<td>270</td>
<td>Gray sand</td>
</tr>
<tr>
<td>280</td>
<td>Gray sand</td>
</tr>
<tr>
<td>290</td>
<td>Gray sand</td>
</tr>
<tr>
<td>300</td>
<td>Black shale</td>
</tr>
</tbody>
</table>

**Approx. 3450 ft**

### Estimation ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Packed Hole</th>
<th>Size of Packed Hole</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>5/8</td>
<td>123</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>5/16</td>
<td>514</td>
<td>440</td>
<td></td>
</tr>
</tbody>
</table>

### Remarks:

- Powerhead: Pump 150 HP
- Remarks: (Gravel packing, cementing, packers, type of shutoff)
- Water rises in well to 193 feet from surface.

**License No.**: 52

**Date Wlled Started**: 5/25/12

**Date Completed**: 7/31/12

**Type of Well**: Drilled

**Equipment Used**: Churn Drill and Air Rotary

**Water Use**: Domestic

**Driller's Signature**: Liberty Drilling Co.

**Driller's Address**: Kalispell, Montana

**Date Wlled**: Sep 5, 1972

**County**: Lake
Location: Stock well below Irvine Lookout Tower

Formations Log:

- 0 - 23 Topsoil
- 2 - 61 Claybound gravel
- 61 - 112 Tan clay, gravel and boulders
- 112 - 121 Tan clay
- 121 - 131 Boulders, some tan clay
- 131 - 142 Hard blue-gray rock
- 142 - 213 Light gray rock
- 213 - 242 Green rock
- 242 - 269 Gray and green rock in thin alternate layers. Seep of water.
- 269 - 278 Gray rock
- 278 - 287 Gray-green rock
- 287 - 394 Gray rock
- 394 - 415 Gray rock with white calcite seams
- 415 - 468 Gray rock with white calcite seams. Some water. Four gallons per min.
- 468 - 499 Gray rock with white calcite seams. Some water. Four gallons per min.
- 499 - 503 Green rock. Some water. Six gallons per minute total.
- 503 - 514 Gray rock.

Water Log:

Well produced six gallons per minute of clear sand free water on an extended test with an air lift pump. Static water level at completion of well was 193 feet from surface. All water entering well is coming from cracks and seams in the rock below 242 feet.

Casing Log:

Well cased from 3 1/2 feet above surface to 123 feet with 6 5/8 inch OD by 1/4 inch wall Black Steel Water Well Casing. A forged steel drive shoe is welded to the open bottom of the six inch casing. Well cased with 4 9/16 inch OD by 1/2 inch wall Black Steel Water Well Casing from one foot above surface to 51 1/4 feet. A six inch rotary tri-cone bit is welded to the bottom of the four inch casing. The four inch casing was perforated at 350 feet; 400 feet; 420 feet and 440 feet with a Mills Knife. All water entering well is coming through these perforations.

NOTE: Formation information from 0 to 132 feet was taken from Mission Drilling Co.'s Log of Records.