State of Montana
County of Gallatin

Filed: June 29, 1973
at 9:10 o'clock A.M.

By: Allen Haugan

Fee $25.00
Owner: John Whitman
Address: West Yellowstone, Montana

Driller: Carl E. Hallensteiner
Address: Dillon, Montana

Date Started: Aug. 17, 1960
Date Completed: Aug. 20, 1960

Location: Sec. 34, T. 13S, R. 5E

Type of well: Drilled
Equipment used: Chuck Drill

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

Industrial [ ] Drainage [ ] Other [ ]

Casing: 4 ft. to 103 ft. Type Galv. Water well, Size 6 in. 0.10 lb.

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: None

Static Water level, for non-flowing well: 117 feet.

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

Pumping water level: 80 feet at 20 gal. per min.

How tested: Bailier

Length of test: 30 min.

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

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
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<tbody>
<tr>
<td>1/2' pit</td>
<td>85</td>
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<td>Sand</td>
</tr>
<tr>
<td>85</td>
<td>91</td>
<td></td>
<td>Clay &amp; Sand</td>
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<tr>
<td>91</td>
<td>103</td>
<td></td>
<td>Lava dust &amp; sand (very dirty)</td>
</tr>
<tr>
<td>.103</td>
<td></td>
<td></td>
<td>Coarse sand</td>
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**Notice of Completion of Groundwater Appropriation by Means of Well**

(Revise Completed, Montana General Law, 1961)

- **Date Completed:** Dec. 16, 1960

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

**Date Well Started:** Nov. 11, 1960

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

**Equipment Used:** Drill

- **Character and Thickness of Different Strata:**
  - Clay, shale, gravel, rock, sand, etc.

**Water Use:**
- Domestic
- Municipal
- Industrial
- Irrigation
- 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 water rises in the well.**

### PERFORATIONS

<table>
<thead>
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<th>From (Foot)</th>
<th>To (Foot)</th>
<th>Kind of Casing</th>
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**Static Water Level for non-flowing Well:** 68 feet

**Shut-in Pressure for Flowing Well:** None

**Pumping Water Level:** 68 feet at 95 gal. per minute

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

- **How Tested:** Scillon
- **Length of Test:** 1 hour

**Remarks:** Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other pertinent information, including number of acres irrigated, if used for irrigation... none

### Driller's License Number

- **Driller's License Number:** 5

### Driller's Signatures

- **Driller's Signatures:**

---

**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.
<table>
<thead>
<tr>
<th>Sec.</th>
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<th>County File No.</th>
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<td>Date Started</td>
<td>Date Completed</td>
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<td>Alfred and Frances Abelín</td>
<td>Bozeman, Montana</td>
<td>1939 June</td>
<td>1939 June</td>
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**State Engineer**

**Water Well Log**

- **Water use**: Irrigation
- **Type of well**: Drill
- **Equipment used**: Drill
- **Location**: Sec. 10, T. 4, R. 1
- **Type of screen or perforations**: Perforated or Screened
- **Static Water level, for non-flowing well**: 133 feet
- **Shut-in pressure, for flowing well**: 175 lb/sq. in. on: (date)
- **Pumping water level**: 133 feet at: 180 gal. per min.
- **How tested**: Well drillers had equipment to test
- **Length of test**: None
- **Remarks**: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

*Metal cap cemented in*

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(over)
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<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
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<td>0' - 12'</td>
<td>Black dirt</td>
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<tr>
<td>12' - 40'</td>
<td>Gravel</td>
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<tr>
<td>40' - 44'</td>
<td>Hardpan</td>
</tr>
<tr>
<td>44' - 65'</td>
<td>Gravel x clay</td>
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Log of Well
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
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: N e a r o l d F. C a i n
Address: Rt 4 Box 141

Date well started: Feb 21, 1973

Date well completed: March 5, 1973

Type of well: drilled

Equipment used: cable tool

Water Use: Domestic □ Municipal □ Stock □ Irrigation □

Industrial □ Drainage □ Other □ Garden/Lawn □

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

<table>
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<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of casing</th>
<th>Press (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
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<tr>
<td>7&quot;</td>
<td>6 5/8</td>
<td>2 above</td>
<td>58 ft</td>
<td>none</td>
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Static water level: 9 44 ft.*
Pumping water level: 9 44 ft.* at .20 gallons per minute, measured 30 minutes after pumping began.

*Measured from ground level.

Well developed by bailer and pump for .3 hours.

Power: 115 volt, 1/2 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: H u l b e r t

Driller's Address: Route one, Bozeman, Montana

Hulbert Drilling, LICENSE NO. 47

Show exact depth of bottom:

54514
State of Montana
County of Gallatin ss.
Filed June 29, 1979 at 3:29 o'clock P.M.

Carl L. Stucky
County Clerk & Recorder

By: M. J. Nagase
Deputy

Fee $2.00
# NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 257 Montana Session Laws, 1961, as amended)

The 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: Witts 60 All

Address: 2103 Bridger Ave.

Date well started: Nov. 6, 1970

completed: Nov. 12, 1970

Type of well: Drilled

Equipment used: Churn Drill

Water Use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]

Industrial [ ] Drainage [ ] Other [ ] Garden/Lawn [ ]

*Describe:

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

---

## ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Pipe (Size)</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Depth (Feet)</th>
<th>PEFFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6 5/8</td>
<td>1'</td>
<td>100'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static water level**: 12 ft.

**Pumping water level**: 100 ft.

at 20 gallons per minute, measured 30 minutes after pumping began.

*Measured from ground level.

Well developed by **Pump** for 1 hour.

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: [Signature]

Driller's Address: 2103 Bridger Ave.

Bozeman, Montana

LICENSE NO. 17

---

56075
State of Montana
County of Gallatin
Filed: July 12, 1973
at 9:27 a.m.
Clerk of the Court
By: Deputy
Fee: $2.00
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Charles G. & Daisy L. Quiet, of 414 6th Ave. E., Three Forks, (Name of Appropriator)
Gallatin, State of Montana, (Address)

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:

Garden Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: April 1st to Sept. 1st.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 240 gallons

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof:
Lot 5, block 58, approximately 1/3 of the lot.
Charles G. & Daisy L. Quiet.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
Hand dug, during April of 1939.

8. The depth of water table:
4 to 5 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
Hand dug, with galvanized liner, gravel fill, and electric centrifugal pump, and approximately 10 feet deep

10. The estimated amount of groundwater withdrawn each year:
About 12,000 gallons

11. The log of formations encountered in the drilling of each well if available:
4 & 1/2 feet of clay, the rest 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:
Deed for lot recorded at Courthouse in Benzie, Gallatin County, Montana.

Signature of Owner: Charles G. Quiet
Date Dec. 23, 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.
### WATER WELL LOG

**Owner:** Carl H. Hemmingsen  
**Address:** 

**Driller:**  
**Address:** Benkendorff  

**Date Started:** May 19, 1955  
**Date Completed:** May 28, 1955

**Location:** Sec. T. R., 1/4 sec.

**Type of well:** 
**Equipment used:**

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

**Casing:**  
- 0 ft. to 53 ft.  
- Type: PE
- Size: 6 3/8" OD

**Perforated or Screened:**  
- 0 ft. to blank ft.
- Size: 

**Type of screen or perforations:**

**Static Water level, for non-flowing well:** 12 ft. from Surface

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

**Pumping water level:** 32 ft. at 45 GPM; 9 gal. per min

**How tested:**

**Length of test:** 2 hrs

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

---

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0 to 33 ft</td>
<td>gravel, embedded with clay, surface water @ 11 to 18 ft</td>
</tr>
<tr>
<td>33 to 49 ft</td>
<td>(groundwater) dirty sand &amp; gravel, very low permeability</td>
</tr>
<tr>
<td>49 to 52 ft</td>
<td>clean sand &amp; gravel</td>
</tr>
</tbody>
</table>

Surface water was definitely shut off by heavy mud outside of casing.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

[Name of Appropmtor] of [Address], [Town], 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:
   [Description]

3. Date or approximate date of earliest beneficial use, and how continuous the use has been:
   [Date]

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

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]

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

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

8. The depth of water table:
   [Depth]

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

10. The estimated amount of groundwater withdrawn each year:
    [Amount]

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:
    [Information]

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 Gallatin  

Filed ______________ 1963  
at ______________ 12:40 p.m.  

__________________________  
COUNTY CLERK & RECORDER  

__________________________  
DEPUTY  

Fee $__________
Notice of Completion of Groundwater Appropriation by Means of Well

(Owner's Name)

Date of Notice of Appropriation of Groundwater

Date well started

Date Completed

Type of Well: Drilled

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 Drilling Hole</th>
<th>Size and Weight of Casing</th>
<th>Depth (Feet)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>4&quot; x 0 D</td>
<td>29</td>
<td>Note</td>
</tr>
</tbody>
</table>

Static 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: Drilled

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.
680
State of Montana
County of Galata
Filed August 5, 1963

Clerk
COUNTY CLERK & RECORDER
By 2:00 P.M.
DEPUTY
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Hugo Ivan Martin  Address: Route 1, Roseman
Driller: M. E. Jones  Address: Roseman

Date of Notice of Appropriation of Groundwater: July 24, '62
Date well started: July 24, '62  Date Completed: July 26, '62

Type of well: Drilled  Equipment Used: Churn Drill

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</th>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Drive</th>
<th>Top of Ground</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 5/8&quot; by 15'</td>
<td></td>
<td>Top of ground</td>
<td>None</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 6 feet.
Shut-in Pressure for Flowing Well:
Pumping Water Level: 32 feet at 60 gal. per minute.
Discharge in gal. per min. of flowing well:
How Tested: Pump Length of Test: 2 hrs.

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

Driller’s License Number: M-17
Driller’s Signature: M. E. Jones
Owner’s Signature: Hugo Ivan Martin

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

Robert C. McCall
(Name of Appropriator)
503 South Sixth
(Address)
Boxmen
(Town)
County of Gallatin
(State of Montana)

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

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

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

3. The amount of groundwater claimed (in miner's inches or gallons per minute) 50 gal per minute

4. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
   lawn only
   -by electric pump

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

6. The estimated amount of groundwater withdrawn each year 1.5 million gal

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   June 1947

8. The depth of water table

9. The log of formations encountered in the drilling of each well if available
   600 ft

10. 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.

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 WELL LOG**

<table>
<thead>
<tr>
<th><strong>Owner</strong></th>
<th>Jack Nash</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Driller</strong></td>
<td>Montana Custom Drilling Co.</td>
</tr>
<tr>
<td><strong>Address</strong></td>
<td>Butte, Montana</td>
</tr>
<tr>
<td><strong>Date Started</strong></td>
<td>July 12, 1957</td>
</tr>
<tr>
<td><strong>Date Completed</strong></td>
<td>Sept. 16, 1957</td>
</tr>
</tbody>
</table>

**Location:** Sec. T R J4 sec.

**Type of well:** Drilled

**Equipment used:** Cased stock

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

**Casing:**
- Surface ft. to 50 ft. ft.
- Type: R.F. steel
- Size: 6” 17’ per ft.

**Perforated or Screened:**
- Ft. to ft.

**Type of screen or perforations:**

**Static Water level, for non-flowing well:** 15’

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

**Pumping water level:** 5 ft. flowdown feet at 40 gal. per min.

**How tested:** Banff

**Length of test:** 1 ft.

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

...
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 43 6&quot;</td>
<td>All sand, gravel &amp; boulder.</td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY

WATER WELL LOG

Owner: William Oviel
Address: Bozeman

Driller: M. E. Jones
Address: Bozeman

Date Started: February 20, 1961
Date Completed: Feb. 27, 1961

Location: Sec T R M sec.

Type of well: Drilled
Equipment used: Churn Drill

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

Casing: Surface ft. to 40 ft. Type: Black steel Size: 6 3/4 OD 15 ft
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: 19 feet.

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

Pumping water level: 40 feet at 25 gal. per min.

How tested: Pump

Length of test: 24 hours

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

(over)
<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>Topsoil + Clay</td>
</tr>
<tr>
<td>5'</td>
<td>Gravel</td>
</tr>
<tr>
<td>23'</td>
<td>Tight Sand</td>
</tr>
<tr>
<td>28'</td>
<td>Fine Gravel + Sand</td>
</tr>
<tr>
<td>31'</td>
<td>Tight Sand</td>
</tr>
<tr>
<td>34'</td>
<td>Fine Gravel + Sand</td>
</tr>
<tr>
<td>40'</td>
<td>Clay</td>
</tr>
<tr>
<td>40'</td>
<td>Fine Gravel</td>
</tr>
</tbody>
</table>

Note: The table contains additional handwritten notes at the bottom.
**Montana Bureau of Mines and Geology**  
**Butte, Montana**  

**WATER WELL LOG**  

**Spaulding**  

**Owner:** Charles Spaulding  
**Address:** Manhattan  

**Driller:** M.E. Jones  
**Address:**  

**Date Started:** Dec. 31, 1960  
**Date Completed:** Dec. 31, 1960  

**Location:** Sec. 7, R. 36, T. 84  

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

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

**Casing:**  
- Surface: ft. to 43 1/2 ft.  
- Type: Black Steel  
- Size: 6 1/2" X 15++  
- Other:  

**Perforated or Screened:**  
- Ft. to ft. Type Size  

**Type of screen or perforations:**  

**Static Water level, for non-flowing well:** 22 feet.  

**Shut-in pressure, for flowing well:** 50 lb./sq. in. on:  

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

**How tested:** Pump  
**Length of test:** 2 Hours  

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

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>Topsoil</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>27</td>
<td>38</td>
</tr>
<tr>
<td>38</td>
<td>39</td>
</tr>
<tr>
<td>39</td>
<td>43½</td>
</tr>
<tr>
<td>43½</td>
<td>44½</td>
</tr>
<tr>
<td>44½</td>
<td>50</td>
</tr>
<tr>
<td>50</td>
<td>51</td>
</tr>
</tbody>
</table>

Log of Well

Gallatin County, Ill.

State of Illinois

Filed: January 27, 1961

By: [Signature]
### Water Well Log

**Owner:** Joseph K. Yumen  
**Address:** Butte, Montana

**Driller:**  
**Address:**

**Date Started:** Unkown  
**Date Completed:**

**Location:** Sec.  T.  R.  __ sec.

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>( dug, drilled, or drilled)</td>
<td>( churn, drill, rotary, other )</td>
</tr>
</tbody>
</table>

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

**Casing:**  
- __ ft. to __ ft. Type __ Size __
- __ ft. to __ ft. Type __ Size
- __ 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: __ (msw)

**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)
**DRILLER'S LOG**

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

**STATE OF MONTANA**

**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:** ARMSTRONG, TAYLOR  
**Address:**  
**File No.:** 3342  
**Date well started:** 1-6-73  
**Completed:** 1-6-73

**Type of well:**Doug  
**Equipment used:**Drill  
**Water Use:** Domestic [ ]  Municipal [ ]  Stock [ ]  Irrigation [ ]  Industrial [ ]  Drainage [ ]  Other [ ]  Garden/Lawn [ ]

*Describe:* 10' deep, 3'' coming

**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:** 70,000 gallons

<table>
<thead>
<tr>
<th>Site of Drilled Hole</th>
<th>Site and Weight of Cutting</th>
<th>Depth of Hole</th>
<th>Size</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>30'</td>
<td>30'</td>
<td>0'</td>
<td>10'</td>
<td>10'</td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 5 ft.  
Pumping water level: 7 ft.  
measured 10 minutes after pumping began.

*Measured from ground level.*

Well developed by  
for hours.

Power: 10 HP  
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

Driller's Address

LICENSE NO. 55579  

Show exact depth of bottom
**WATER WELL LOG**

**Owner:** Harry S. Wells  
**Address:** Star Road  
**Driller:** Harriet Van Dyken  
**Address:** 37 N. Williams, Butte, Montana  

**Date Started:** Oct 14, 1956  
**Date Completed:** Oct 21, 1956  

**Location:** Sec. T. R.  

**Type of well:** drilled  
**Equipment used:** chain drill  

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

**Casing:**  
-ft. to 35 ft.  
-Type: 12 1/4 in.  
-Size: 6 in.  

**Perforated or Screened:**  
-From ft. to ft.  
-To ft.  
-Type of screen or perforations: None

**Static Water level, for non-flowing well:** 28 ft. of standing water feet.  
**Shut-in pressure, for flowing well:**  

**Pumping water level:** 20 feet at 2,720 gal. per min.  

**How tested:** Bake (or) Send  
**Pump:**  
**Length of test:** Two Hours

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

**Remarks:** None

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Clay - gravel</td>
</tr>
<tr>
<td>2 - 29'</td>
<td>gravel - sand</td>
</tr>
<tr>
<td>29' - 35'</td>
<td>Sand (water bearing sand)</td>
</tr>
</tbody>
</table>

Log of Well