STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Mrs. Lammie Nelson, of Jocula
   (Name of Appropriator)
   (Address) __________
   (Town)
   County of ______________, 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:
      Stock Water (J) Domestic Use (C)

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
      1927 (C) 1927 (C) Continuous Use (C)

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

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

   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 The estimated amount of groundwater withdrawn each year: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 Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 31 day of ___.

A.D. 18___ at ___ o'clock ___ M.

[Signature]
County Clerk and Recorder

Manuel Thames
Deputy

Fee Paid $____

[Signature]
## WATER WELL LOG

**Owner:** W. A. (Bill) Nelson  
**Address:** Jordan, Montana

**Driller:** Merle Drane  
**Address:** Jordan, Montana

<table>
<thead>
<tr>
<th>Date Started</th>
<th>Date Completed</th>
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</thead>
<tbody>
<tr>
<td>9/12/53</td>
<td>9/17/53</td>
</tr>
</tbody>
</table>

**Location:** Sec. 10 T. 19 R. 38 1/4 sec. N32E12

### Type of well
- **Borehole** (drilled or cased)

### Equipment used
- **Rotary** (cable, rotary, other)

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

### Casing
- **0 - 150** ft. to **150** ft.  
  - Type: standard pipe  
  - Size: □
- **150** ft. to **290** ft.  
  - Type: standard pipe  
  - Size: □
- **290** ft. to **ft.**  
  - Type: □  
  - Size: □

### Perforated or Screened
- **155** to **165** ft.  
  - Type: □  
  - Size: □

### Type of screen or perforations
- **holes**

### Static Water level, for non-flowing well
- **feet**

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

### Pumping water level
- **110** feet at □  
  - 2 gal. per min.

### How tested
- **bailer**

### Length of test
- **5 minutes**

### 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>
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</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
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<td>290</td>
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</table>
# MONTANA BUREAU OF MINES AND GEOLOGY

**WATER WELL LOG**

**STATE ENGINEER**

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Driller</th>
<th>Address</th>
<th>Date Started</th>
<th>Date Completed</th>
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<tr>
<th>Location:</th>
<th>Sec. 10 T. 19R R. 36S Sec. 881</th>
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<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
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<tr>
<td>Drilled</td>
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<tr>
<th>Water use:</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
<th>Industrial</th>
<th>Drainage</th>
<th>Other:</th>
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<table>
<thead>
<tr>
<th>Casing:</th>
<th>0 ft. to 260 ft.</th>
<th>Type: iron</th>
<th>Size: inch</th>
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<th>ft. to ft.</th>
<th>Type:</th>
<th>Size:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type:</td>
<td>Size:</td>
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<tr>
<th>Perforated or Screened:</th>
<th>Ft. 100 to Ft. 230</th>
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<table>
<thead>
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<th>Type of screen or perforations:</th>
<th>slot(s)</th>
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<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well:</th>
<th>feet</th>
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</thead>
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<table>
<thead>
<tr>
<th>Shut-in pressure, for flowing well:</th>
<th>lb/sq. in. on:</th>
<th>(date)</th>
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<table>
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<tr>
<th>Pumping water level:</th>
<th>feet at 5 gal. per min.</th>
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<table>
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<tr>
<th>How tested:</th>
<th>battery</th>
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<table>
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<th>Length of test:</th>
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<tr>
<th>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
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<th>@ - (over)</th>
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<td>Depth, feet</td>
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</tr>
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<td>95 - 98</td>
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<td>168 - 170</td>
</tr>
<tr>
<td>170 - 230</td>
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<td>230 - 240</td>
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</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Josephine F. Runcher,
   (Name of Appropriator)

   of
   (Address)

   Jordan,
   (Town)

   County of
   (County)

   State of
   (State)

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

2. The beneficial use on which the claim is based:
   1. Domestic, 2. Stock & Domestic

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   1917, Daily use

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 2, 5 gal. per Min.
   2, Natural Seepage

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:
   none

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   1, Pump, 2, Natural Seepage

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   1, 1917, Completed and dug deeper in 1924.

8. The depth of water table:
   1, 12 feet to water, 2, water comes above ground naturally

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:
   1, dug well with 3 inch pipe

10. The estimated amount of groundwater withdrawn each year:
    200,000 gal. yearly or more

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

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

   Signature of Owner: Josephine F. Runcher
   Date: January 3, 1964

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

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

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

Filed in the offices of the County Clerk and
Recorder of Garfield County, State of Montana
this __ day of ________________
A.D. __________

Charles E. Congdon
County Clerk and Recorder
By: __________________________

Fee Paid $ ______

[Signature]

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

Norma Dean Nelson
(Name of Appropriate)
County of: Garfield
(Address)
Town: Jordan
(State of: Montana)

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: Houses, garden & stock

2. The date or approximate date of earliest beneficial use, and how continuous the use has been: Apr. 1959 = 8 yrs. continually from date of drilling

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

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: Irrigated garden one year

5. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Deep well, Jet pump

6. The depth of water table: 90 feet (ground to tap of water)

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

8. The log of formations encountered in the drilling of each well if available: Not Available

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

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: Norma Dean Nelson
Date: 12-31-63

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

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

1. Philip Patrick Murray, of Box 721, Jordan
   (Name of Appropriator) (Address) (Town)

   County of Garfield 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: LIVESTOCK WATER.

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1754.

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 6 GALLON PER MINUTE.

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

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Well was on land when purchased.

   8. The depth of water table: 25 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: 180 FT. DRILLED, 4 IN CASING.

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

   11. The log of formations encountered in the drilling of each well if available: NOT AVAILABLE.

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

   Signature of Owner: Edith Murray
   Date: Dec 31, 1963

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

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

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

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 21 day of November A.D. 1965
at 2:26 o'clock M.

By ___________________________

[Signature]

[Stamp]

Paid

[Stamp]
**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

**0. Approved Stock Form—State Publishing Co., Helena, Montana—1961.**

---

**1. PHILIP PATRICK MURPHY of BOX 721 JORDAN**

**County of GARFIELD**

(State of MONTANA)

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

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

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

\[ \text{HOME + LIVESTOCK} \]

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

\[ \text{DEC. 1958 CONTINUOUS USE EVER SINCE} \]

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

\[ \text{THOUSANDS PER MINUTE} \]

**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:**

\[ \text{NOT USED FOR IRRIGATION} \]

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

\[ \text{ELECTRIC PUMP} \]

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

\[ \text{DEC. 1958} \]

**8. The depth of water table:**

\[ \text{10 FT. TO WATER} \]

**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:**

\[ \text{80 FT. DEEP—WATER COMES UP TO WITHIN 10 FT. OF TOP OF GROUND} \]

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

\[ 930,000 \]

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

\[ \text{NOT AVAILABLE} \]

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

\[ \text{NONE} \]

---

**Signature of Owner:**

\[ \text{PHILIP MURPHY} \]

**Date:**

\[ \text{DEC. 31, 1963} \]

---

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:** Tina M. Wolfe  
**Address:** Jordan, Montana

**Driller:** D. C. Drilling Co.  
**Address:** Wolf Point, Montana

**Date Started:** June 3, 1958  
**Date Completed:** 6/5/58

**Location:** Sec. 26, T. 19 N., R. 38 E., 4 sec. 661, Garfield County

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment used</td>
<td>Sides</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Casing:</th>
<th>ft. to ft.</th>
<th>Type</th>
<th>Size</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>steel</td>
<td>½ inch</td>
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<tr>
<th>Perforated</th>
<th>ft. to ft.</th>
<th>F.</th>
<th>Ft. to Ft.</th>
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<table>
<thead>
<tr>
<th>Type of screen or perforations</th>
<th>½ inch slot</th>
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<tr>
<th>Static Water level, for non-flowing well:</th>
<th>30 feet.</th>
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<tbody>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb./sq. in. on: (date)</td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>½2 feet at 4 gal. per min.</td>
</tr>
<tr>
<td>How tested:</td>
<td>bolder &amp; pump.</td>
</tr>
<tr>
<td>Length of test:</td>
<td>3 hours</td>
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<tr>
<td>Remarks:</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
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</tbody>
</table>

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
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<td>Blue clay</td>
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<td>Sec.</td>
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<td>Type of Form</td>
<td>County File No.</td>
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<td>Fogle Dairy A</td>
<td>A97</td>
<td>124933</td>
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<tr>
<td>7</td>
<td>Olsen, Leonard</td>
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<td>Fogle, Dairy A</td>
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<td>Nole, Dairy A</td>
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<td>124933</td>
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</table>
Declaration of Vested Groundwater Rights (Under Chapter 237, Montana Session Laws, 1961)

1. [Name of Appropriate] (Address) (Town)

County of [Garfield] 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: Stock Water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1920 Continuous Use

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

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: [Owner Name]

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1920

8. The depth of water table: 80 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, 590 ft. depth

10. The estimated amount of groundwater withdrawn each year: 756,000 gals

11. The log of formations encountered in the drilling of each well if available: [Log 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: [Information]

Signature of Owner: [Signature] Date: Dec 26, 1963

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

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

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

Filed in the office of the County Court of Catfield
County, Montana, on the 26th day of July, 1909.
A.D. 1903

By

Deputy

Two fourths & $3.00
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 Appropriator) Norman Allman
(Address) Jordan
County of Harford 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. (If in wander, specify days, weeks, months, years around.)

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 1 1/2 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.

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. Sept. 1951

8. The depth of water table. 100 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.

10. The estimated amount of groundwater withdrawn each year.

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

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: Norman Allman
Date: Dec. 30, 1963

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

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

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 Co. [Field]

Filed in the Office of the County Clerk and Recorder of Co. [Field], County, State of Montana, this 31st day of [Month], 1985.

A. D. 16 [Year], 10th day of [Month].

[Signature]
County Clerk and Recorder

[Signature]
Deputy

Fee Paid $ [Amount]

[Signature]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. (Name of Appropriator) (Address) (Town) (County of) (State of)

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

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

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1933 - 1952

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

7. 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: Dows J. Flans
Date: Dec 26, 1963

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

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

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

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

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

STATE ENGINEER

County of ___________   State of ___________

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1920 CONTINUAL

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

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

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

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

8. The depth of water table.

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

10. The estimated amount of groundwater withdrawn each year.

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

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

Signature of Owner

Date

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. NAME OF APPROPRIATOR: Diana A. Fogle
   ADDRESS: Jordan
   COUNTY: Garfield
   STATE: Montana
   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: House & Stock Water

3. Date or approximate date of earliest beneficial use; and how continu- 
   ous the use has been: 1920

4. The amount of groundwater claimed (in miner's inches or gallons 
   per minute): 75 gpm.

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: 1/4 A.

6. The means of withdrawing such water from the ground and the loca- 
   tion of each well or other means of withdrawal: Stock Pump

7. The date of commencement and completion of the construction of the well, 
   wells, or other works for withdrawal of groundwater: 1/20

8. The depth of water table: 30 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 - Depth: 120 ft.

10. The estimated amount of groundwater withdrawn each year: 985,000

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: None

Signature of Owner: Diana A. Fogle
Date: Dec. 26, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of 
Mines and Geology, and Quadruplicate for the Appropriaor.
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Sam Moore</td>
<td>5794111kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Grimes, Inc.</td>
<td>5794111kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Lake Jasper</td>
<td>5794111kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Jasper, Inc.</td>
<td>5794111kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Anderson, Inc.</td>
<td>494</td>
<td>125190</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Thompson, Inc.</td>
<td>494</td>
<td>125186</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>James, Inc.</td>
<td>5794111kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Jackson, Inc.</td>
<td>5794111kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Nagum, Edward &amp; Daughter</td>
<td>494</td>
<td>125480</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Shannon, Inc.</td>
<td>5794111kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Form No. 18

MONTANA BUREAU OF MINES AND GEOLOGY

Water Well Log

Owner: CARL SWANSON
Address: JORDAN, MONTANA

Driller: CARL JERREL
Address: BILLINGS, MONTANA

Date Started: 9/59
Date Completed: 9/59

Location: Sec. 16 T. 15N R. 46E 4 sec. 1BSE

Type of well: DRILLED

Equipment used: ROTARY

Water use: Domestic □  Municipal □  Stock □  Irrigation □

Industrial □  Drainage □  Other □

Casing: 0 ft. to 50 ft. Type: iron  Size: 4. inch

Casing: 50 ft. to ft. Type:  Size:

Casing: ft. to ft. Type:  Size:

Perforated or screened: Ft. 30 to ft. 50  Ft.  to ft.

Type of screen or perforations: slots

Static water level, for non-flowing well: 10 feet from top feet.

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

Pumping water level feet at gal. per min.

How tested: bailer

Length of test: 1 hour

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</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>12 sand and gravel</td>
</tr>
<tr>
<td>12</td>
<td>40 sandstone</td>
</tr>
<tr>
<td>40</td>
<td>50 shale</td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Ed Gagnon  Address: Jordan, Montana
Driller: Carl Jarrel  Address: Miles City, Montana
Date Started: July 15, 1961  Date Completed: July 18, 1961
Location: Sec. 15  T. 19N  R. 10E  34 sec. SE 4

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Rotary</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dug, driven, bored, or drilled</td>
<td>(Churn drill, rotary, other)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water use:</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>ft. to</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>220</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>Ft. to Ft.</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perforated</td>
<td>180 to 220</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Type of screen or perforations: 8 slots

Static Water level for non-flowing well: 150 ft. from top
Shut-in pressure for flowing well: lb./sq. in. on: (date)

Pumping water level: feet at 10 gal. per min.

How tested: bailer

Length of test: 1 hour

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 - 20</td>
<td>Top soil</td>
</tr>
<tr>
<td>20 - 22</td>
<td>Rock</td>
</tr>
<tr>
<td>22 - 115</td>
<td>BEXY shale</td>
</tr>
<tr>
<td>115 - 118</td>
<td>Rock</td>
</tr>
<tr>
<td>118 - 160</td>
<td>Shale</td>
</tr>
<tr>
<td>160 - 180</td>
<td>Shale</td>
</tr>
<tr>
<td>180 - 220</td>
<td>Sand</td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Jasper Libra
Address: Jordan, Montana

Driller: Marle Drake
Address: Jordan, Montana

Date Started: 2/27/61
Date Completed: 3/15/61

Location: Sec. 21 T. 19 N R. 66 E 1/4 sec. 100 acres

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

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

Casing: 0 ft. to 315 ft. Type □ \ Size □ \ inch

Casing: ft. to ft. Type \ Size

Casing: ft. to ft. Type \ Size

Perforated or Screened: Ft. none to Ft. to Ft. to Ft.

Type of screen or perforations:

Static Water level, for non-flowing well: Water comes to 20 feet from top feet.

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

Pumping water level: feet at 30-40 gal. per min.

How tested: bailer (thinks that it can't be pumped dry)

Length of test:

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>0</td>
<td>20</td>
</tr>
<tr>
<td>20</td>
<td>29</td>
</tr>
<tr>
<td>23</td>
<td>90</td>
</tr>
<tr>
<td>90</td>
<td></td>
</tr>
<tr>
<td>94</td>
<td>180</td>
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<tr>
<td>180</td>
<td>182</td>
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<tr>
<td>182</td>
<td>215</td>
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<tr>
<td>215</td>
<td>235</td>
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<tr>
<td>235</td>
<td>238</td>
</tr>
<tr>
<td>238</td>
<td>315</td>
</tr>
</tbody>
</table>
## WATER WELL LOG

**Owner:** Ed Gagnon  
**Address:** Jordan, Montana

**Driller:** Carl Jarrel  
**Address:** Miles City, Montana

**Date Started:** July 18, 1961  
**Date Completed:** July 20, 1961

**Location:** Sec. 23, T. 19N, R. 10E, 4 sec. NW¼

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Dug</th>
<th>Driven</th>
<th>Bored</th>
<th>Drilled</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water use:</td>
<td>Domestic</td>
<td>Municipal</td>
<td>Stock</td>
<td>Irrigation</td>
<td>Industrial</td>
</tr>
<tr>
<td>Casing: 0 ft. to 1 ft.</td>
<td>Type</td>
<td>Size</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing: 1 ft. to 1½ ft.</td>
<td>Type</td>
<td>Size</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing: 1½ ft. to 2 ft.</td>
<td>Type</td>
<td>Size</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perforated or Screened: 1½ ft. to 2 ft.</td>
<td>Type or Perforations</td>
<td>Slots</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>12 ft. from top</td>
<td>feet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb./sq. ft. on:</td>
<td>(date)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>feet at</td>
<td>20 gal. per min</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>How tested:</td>
<td>bailer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of test</td>
<td>1 hour</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>20</td>
<td>46</td>
</tr>
<tr>
<td>46</td>
<td>47</td>
</tr>
<tr>
<td>47</td>
<td>110</td>
</tr>
<tr>
<td>110</td>
<td>115</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well
Developed After January 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Phil Sillman
Address: Jordan, Mont.

Driller: Merle Dake
Address: Jordan, Mont.

Date of Notice of appropriation of groundwater: July 30, 1967
Date well started: July 30, 1967
Date completed: July 30, 1967

Type of well: Drilled
Equipment used: Churn 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 the water rises in the well.

<table>
<thead>
<tr>
<th>Depth (Feet)</th>
<th>Size and Weight of Chisel Bit</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 feet</td>
<td>3/8 x 2 &quot; x 1</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 5 feet
Shut-in Pressure for flowing well: 24 feet
Pumping Water Level: 10 feet
Discharge in gal. per minute of flowing well: 54 gal.

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

Show exact depth of bottom.

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

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

Driller's License Number: 29
Driller's Signature: Kenneth Dake

4-1968
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. **Name of Appropriator:**

2. **Address:**

3. **Town:**

4. **County of:**

5. **State of:**

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

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

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

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

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

11. The depth of water table.

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

13. The depth of each well or other means of withdrawal.

14. The type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.

15. The estimated amount of groundwater withdrawn each year.

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

17. 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: 12-31-64

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 Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this ______________ day of ____________________
A.D. 19____________, at 9:30 o'clock A.M.

County Clerk and Recorder

By ________________________
Deputy

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

Edward J. Dagron
(Name of Appropriator)

County of
Gallatin
(Town)

State of Montana

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:

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   - 1935
   - 6 months each year

4. The amount of groundwater claimed (in miner's inches or gallons per minute):
   - 5 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:
   - (Information not provided)

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   - (Information not provided)

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   - 1935

8. The depth of water table:
   - 3'

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:
   - (Information not provided)

10. The estimated amount of groundwater withdrawn each year:
    - 500

11. The log of formations encountered in the drilling of each well if available:
    - Not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record:
    - (Information not provided)

Signature of Owner: Edward J. Dagron
Date: 1-5-64

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 Garfield

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, the ___ day of ___

A. D. D. J. of ___

COUNTY CLERK AND RECORDER

DEPUTY

Rec'd Post 9, 19-
<table>
<thead>
<tr>
<th>Owner</th>
<th>Jasper Likes</th>
<th>Address</th>
<th>Jordan, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>Marlo Dane</td>
<td>Address</td>
<td>Jordan, Montana</td>
</tr>
<tr>
<td>Date Started</td>
<td>3/15/61</td>
<td>Date Completed</td>
<td>3/22/61</td>
</tr>
<tr>
<td>Location</td>
<td>Sec 29 T 19 W 1/4 NE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Type of well:** Drilled  
**Equipment used:** Rotary  
**Water use:** Stock  
**Casing:** 0 ft. to 196 ft. Type, Size.  
**Perforated or Screened:** None to ft.  
**Type of screen or perforations:**  
**Static Water level for non-flowing well:** 60 feet from top.  
**Shut-in pressure for flowing well:** lb/sq. in. on: (date)  
**Pumping water level:** feet at l gal. per min.  
**How tested:** bailer  
**Length of test:** 1 hour  
**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>0 - 30</td>
<td>Gumbo</td>
</tr>
<tr>
<td>30 - 90</td>
<td>Brown shale</td>
</tr>
<tr>
<td>90 - 95</td>
<td>Coal</td>
</tr>
<tr>
<td>95 - 165</td>
<td>Shale</td>
</tr>
<tr>
<td>165 - 196</td>
<td>Sand</td>
</tr>
<tr>
<td>196</td>
<td></td>
</tr>
</tbody>
</table>
Form No. 18

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

Date: 2-1962

Owner:
Address:

Driller:
Address:

Date Started:
Completion Date:

Location:

Type of well drilled ( aug, driven, or drilled) used:

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

Casing: _ ft. to 305 ft. Type [ ] Iron [ ] Size [ ]-inch
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 [ ] Slots [ ]

Static water level, for non-flowing well: _____ feet.
Shut-in pressure, for flowing well: _____ lb./sq. in. on: [ ]

Pumping water level __________ feet at ___ gal. per min.

How tested: ________ bailer
Length of test ________ hours

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

One well drilled in 1914; no log furnished; Section 3, Twp 18N., Rge 18E., NE1/4.
Depth 100 feet, flowing well; 1 inch casing.

One well drilled in 1916; NE1/4 of Section 10, Twp 18N., Rge 18E., depth 125 ft., pump about 6-7 gallons per minute; (over) no log furnished with this well.
<table>
<thead>
<tr>
<th>Depth feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>shale</td>
</tr>
<tr>
<td>15</td>
<td>brown sand</td>
</tr>
<tr>
<td>40</td>
<td>coal</td>
</tr>
<tr>
<td>45</td>
<td>shale</td>
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<tr>
<td>70</td>
<td>rock</td>
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<tr>
<td>73</td>
<td>shale</td>
</tr>
<tr>
<td>270</td>
<td>sand</td>
</tr>
<tr>
<td>305</td>
<td></td>
</tr>
</tbody>
</table>
Form No. 19
8-60

T. 19N  R. 10E
County  Garfield

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

Owner  Floyd C. born  Address  Jordan, Montana
Driller  Mari Dought  Address  Jordan, Montana

Date Started  7/61  Date Completed  7/61
Location: Sec. 32 T. 19N R. 10E  & sec. 8-60

Type of well  Drilled  Equipment used  Rotary
(Rea, driven, or drilled)  (Chun, drill, rotary, other)

Water Use  Domestic  Municipal  Stock  *  Irrigation  
Industrial  Drainage  Other  

Casing:  0 ft. to 212 ft.  Type  iron  Size  1 inch
Casing:  ft. to  ft.  Type  Size
Casing:  ft. to  ft.  Type  Size

Perforated or screened:  Ft. 190 to ft. 212. Ft.  to ft.  

Type of screen or perforations  slots

Static water level, for non-flowing well:  60 feet from top  feet.
Shut-in pressure, for flowing well:  lb./sq. in. on:  

Pumping water level  feet at  5 gal. per min.

How tested:  

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>From</td>
<td>To</td>
</tr>
<tr>
<td>0-6</td>
<td>clay</td>
</tr>
<tr>
<td>6-27</td>
<td>pink shale</td>
</tr>
<tr>
<td>27-29</td>
<td>rock</td>
</tr>
<tr>
<td>29-37</td>
<td>shale</td>
</tr>
<tr>
<td>37-42</td>
<td>coal</td>
</tr>
<tr>
<td>42-65</td>
<td>shale</td>
</tr>
<tr>
<td>65-67</td>
<td>rock</td>
</tr>
<tr>
<td>67-165</td>
<td>shale</td>
</tr>
<tr>
<td>165-205</td>
<td>sand</td>
</tr>
<tr>
<td>205-212</td>
<td>shale</td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 227, Montana Session Laws, 1961)

1. Edward S. Black, Jasper
   (Name of Appropriator)
   (Address)
   (Town)
   County of
   State of
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

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

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

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

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

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

8. The depth of water table.

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

10. The estimated amount of groundwater withdrawn each year.

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

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

Signature of Owner: Edward Black, Jasper
Date: 1-3-66

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.
**Form No. 18**

<table>
<thead>
<tr>
<th>County</th>
<th>Garfield</th>
</tr>
</thead>
<tbody>
<tr>
<td>T.</td>
<td>15W</td>
</tr>
<tr>
<td>R.</td>
<td>10E</td>
</tr>
</tbody>
</table>

**MONTANA BUREAU OF MINES AND GEOLOGY**

**Butte, Montana**

**State Engineer**

**Received**

**Jan 2 1962**

---

**Water Well Log**

**Owner** Carl Swanson  
**Address** Jordan, Montana

**Driller** Munson Drilling Co.  
**Address** Miles City, Montana

**Date Started** 10/47  
**Date Completed** 10/47

**Location**: Sec. 35 T. 10 N R. 10 E, sec. 16

---

**Type of well** drilled  
**Equipment used** Rotary

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

**Casing**:  
- Depth: 0 ft. to 76 ft.  
- Type: Iron  
- Size: 3 inch

**Perforated or screened**:  
- Depth: 0 ft. to 80 ft.  
- Size:

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

**Shut-in pressure, for flowing well**: 3 lb./sq. in. on: (date)

**Pumping water level**: feet at 6 gal. per min.

**How tested**:  
**Length of test**:  

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

**Type**  
**Well drilled about 1910, Section 2, 18N 18W, Range 18 East,  
depth of well about 136 feet, cased with 1/4 inch casing, 90 feet.**

**Driller unknown, flows about 3 gallons per minute.**

(over)
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Kern, Paul</td>
<td>442</td>
<td>185103</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Sellman, Phil</td>
<td>372</td>
<td>126194</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Sellman, Phillip J.</td>
<td>443</td>
<td>125157</td>
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</tr>
<tr>
<td>18</td>
<td>Sieversen, Earl</td>
<td>4710</td>
<td></td>
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<tr>
<td>31</td>
<td>Wassmiller, Jim J.</td>
<td>4941</td>
<td>125122</td>
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<tr>
<td>42</td>
<td>Vroom, Robert</td>
<td>4941</td>
<td>125237</td>
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<tr>
<td>53</td>
<td>McPhee, Alice</td>
<td>670985</td>
<td></td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>McPhee, Charles</td>
<td>4541</td>
<td>124952</td>
<td></td>
</tr>
</tbody>
</table>
## Notice of Completion of Groundwater Appropriation by Means of Well

**DEVELOPED AFTER JANUARY 1, 1962**

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

### Notice of Completion of Groundwater

**Appropriation by Means of Well**

**STATE OF MONTANA**

**ADMINISTRATOR OF GROUNDWATER CODE**

**STATE WATER CONSERVATION BOARD**

**Owner:**

**John Herr**  
*Address: Jordan, Mont.*

**Driller:**  
*Address: Jordan, Mont.*

**File No.:**  
*Go 3*

**County:**  
*Garfield*

**Log**

**Top of Ground**

<table>
<thead>
<tr>
<th>Depth (Feet)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>28 rock</td>
</tr>
<tr>
<td>45</td>
<td>45 shale</td>
</tr>
<tr>
<td>47</td>
<td>47 coal</td>
</tr>
<tr>
<td>7</td>
<td>7 sand</td>
</tr>
<tr>
<td>270</td>
<td>270 shale</td>
</tr>
<tr>
<td>356</td>
<td>356 sand</td>
</tr>
</tbody>
</table>

**Date of Notice of appropriation of groundwater**

**Date well started:** 3-22-76  
**Date completed:** 4-4-76

**Type of well:** Drilled

**Equipment used:** (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 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>Site of Drilled Hole</th>
<th>Depth (Feet)</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Kind</th>
<th>Perforation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>260</td>
<td>60</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

90 feet.

**Shut-in Pressure for Flowing Well**  

**Pumping Water Level** 136 feet  
**at:** 7 gal. per minute.

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

**How Tested:**

**Length of Test:** 2½ hr.

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

(Continue on reverse side)

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

---

**Driller's License Number**  
*Driller's Signature:*  
*Signature:*  
*Date:* 5-13-76
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Statutory Laws, 1961)

Owner: Will Johnson  
Address: [Address]  
Date of Notice of Appropriation of Groundwater: [Date]

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

Type of well: Drilled  
Equipment Used: Rotary

Water Use: Domestic  
Municipal  
Other  
Irrigation  
Industrial  
Drainage  
Stock

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

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

State Water Level for non-flowing Well: [Depth]
State Water Level for flowing Well: [Depth]
Pumping Water Level: [Depth]
Discharge in gal. per min. of flowing well: [Gallons]
How Tested: [Test Method]

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: [Number]  
Driller's Signature: [Signature]

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

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: 1916
Owner: [Name]
Address: [Location]
Contractor (if any): None
Address of Contractor: None
Date Started: None
Date Completed: None

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

Quantity of water developed and used with explanation of method
used to measure or estimate such amount. If use is intermittent
estimate approximate lengths of periods of use: 75% in. Other the year.

Signature of Owner: [Signature]
Date: [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.
STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana
this 30 day of July

A.D. 1973

[Signature]
County Clerk and Recorder

[Signature]
Deputy
Form No. 18

County: Garfield

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

Water Well Log

Owner: [Name]
Address: [Address]

Driller: Merrill Grant
Address: Butte, Montana

Date Started: 8/16
Date Completed: 8/16

Location: Sec. 35 T. 38 N. R. 125 E. 1 sec. 18

<table>
<thead>
<tr>
<th>Type of well \ Equipment used</th>
<th>Rotary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled (bore, auger, or drilled)</td>
<td>(shovel, drill, etc.)</td>
</tr>
</tbody>
</table>

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

Casing: [ ] ft. to [ ] ft. Type iron Size [ ]
Casing: [ ] ft. to [ ] ft. Type [ ]
Casing: [ ] ft. to [ ] ft. Type [ ]

Perforated or screened: [ ] ft. to [ ] ft. 286 ft. to [ ] ft.

Type of screen or perforations: [ ] slots

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

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

Pumping water level: [ ] feet at [ ] min.

How tested: [ ]

Length of test: [ ] 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>0 20</td>
<td>clay</td>
</tr>
<tr>
<td>20 68</td>
<td>Shale</td>
</tr>
<tr>
<td>68 71</td>
<td>coal</td>
</tr>
<tr>
<td>71 105</td>
<td>shale</td>
</tr>
<tr>
<td>105 129</td>
<td>rock</td>
</tr>
<tr>
<td>129 190</td>
<td>shale</td>
</tr>
<tr>
<td>190 193</td>
<td>coal</td>
</tr>
<tr>
<td>193 232</td>
<td>sand</td>
</tr>
<tr>
<td>232 240</td>
<td>shale</td>
</tr>
<tr>
<td>240 270</td>
<td>coal and sand</td>
</tr>
<tr>
<td>270 286</td>
<td>shale</td>
</tr>
</tbody>
</table>