STATE OF MONTANA

County of Sheridan

Filed the 30th day of December A. D. 19__3

at 3 o'clock A.M.

R. O. Nelson
County Recorder

Deputy
**WATER WELL LOG**

<table>
<thead>
<tr>
<th>Type of well:</th>
<th>Drilled</th>
<th>Equipment used:</th>
<th>Rotary</th>
</tr>
</thead>
</table>

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

| Location: | sec. 31 | t. 33 | R 52 | 1/4 sec. A W 1/4 |

| Date Started: | Nov. 24, 1958 | Date Completed: | Nov. 24, 1958 |

<table>
<thead>
<tr>
<th>Casing:</th>
<th>120 ft. to ft.</th>
<th>Type: Steel</th>
<th>Size: 3 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type:</td>
<td>Size:</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type:</td>
<td>Size:</td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>ft. to ft.</td>
<td>Type:</td>
<td>Size:</td>
</tr>
</tbody>
</table>

- **Type of screen or perforations:**
- **Static Water level, for non-flowing well:** 10 ft. of water feet.
- **Shut-in pressure, for flowing well:** lb./sq. in.: (date)
- **Pumping water level:** feet at gal. per min.
- **How tested:** 
- **Length of test:** 
- **Remarks:** (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

LEONARD BURGER
(Name of Appropriator)
of Reserve
(Address)
County of SHERIDAN
State of MONTANA

Having 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 WATERING

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

1953

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

NOT APPLIC.

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 APPLIC.

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

NOT APPLIC.

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

1973

8. The depth of water table

NOT APPLIC.

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

NOT APPLIC.

10. The estimated amount of groundwater withdrawn each year

NOT APPLIC.

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

NOT APPLIC.

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 DECEMBER 27, 1965

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
STATE OF MONTANA
County of Sheridan
Filed this 30th day of
December, A.D. 1952
at 10:05 o'clock C.-M.
H. Nelson
County Recorder

Deputy
<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>2</td>
<td>NITCHELS, VERNON</td>
<td>C.W. 2</td>
<td>345413</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>ANDERSON, ALBERT</td>
<td>C.W. 2</td>
<td>348585</td>
<td></td>
</tr>
<tr>
<td>11a</td>
<td>JACOBSSEN, ALBERT</td>
<td>C.W. 4</td>
<td>334198</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>HOPK, MAURICE</td>
<td>A</td>
<td>321490</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>WALKOFS, ALBERT</td>
<td>C.W. 2</td>
<td>341553</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)

Owner: Vern J. Micheli  Address: Medicine Lake

Driller: Albert Andersen  Address: Medicine Lake

Date of Notice of appropriation of groundwater: Sept. 25, 1966
Date well started: Sept. 26, 1966  Date completed: Sept. 29, 1966

Type of well: Drilled  Equipment used: Rotary
(Dug, Driven, bored or drilled) (Cham drill, rotary or other)

Water use: Domestic  Municipal  Stock  Irrigation  Industrial  Drainage  Other

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 1/4 to 11&quot;</td>
<td>4 inch</td>
<td>0</td>
<td>152</td>
<td></td>
</tr>
<tr>
<td>3 5/8 to 122</td>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>4 3/4 to 170</td>
<td></td>
<td>0</td>
<td>0</td>
<td></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

Length of Test in Hours

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

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

Show exact depth of bottom.

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

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

Driller: Albert Andersen  Driller's License Number: 106

Driller's Signature: 41792
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner: [Name]
Address: [Address]

Driller: [Name]
Address: [Address]

Date of Notice of appropriation of groundwater: March 14, 1968

Date well started: March 13, 1968
Date completed: March 14, 1968

Type of well: [Type of well]
Equipment used: [Equipment used]

Water use: [Water use]

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>53.74</td>
<td>4 in.</td>
<td>0</td>
<td>60</td>
</tr>
<tr>
<td>55.14</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.04</td>
<td>6.6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 37 feet

Shut-in Pressure for Flowing Well: 0

Pumping Water Level: 60 feet
at: 8 gal. per minute.

Discharge: 0 gal. per min. of flowing well

How Tested: 0

Length of Test: 0

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

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

(length of test) 5-7-2-63

.(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).

Static Water Level for non-flowing well: 37 feet

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: 106
Driller's Signature: [Signature]

47,000
**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

**Glenn E. Jacobsen**  
of Reserve, Montana

- **County of**: Sherman  
- **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>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. The beneficial use on which the claim is based: Stock Water, Spraying, Human Consumption, Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1948

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 30 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: 5/6 of NW 3/4 Sec. 16, T. 32 R. 53

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:  
   - **Commenced**: Nov. 10, 1962  
   - **Completed**: Nov. 20, 1962

8. The depth of water table: 30'-Jet From Ground Line

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: 170 ft.

10. The estimated amount of groundwater withdrawn each year: 73,000

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:

Signature of Owner: Glenn E. Jacobsen  
Date: 12-17-1963

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 Sheridan

Filed this 30 day of Dec., A.D. 1963
at 12:05 o'clock P.M.

L.R. Vick
County Recorder

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

Maurice Work

(Name of Appropriator) of Reserva

County of Sheridan 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: Household use, stock watering, irrigation garden, trees, berries etc.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1917. Have personally had it in continuous use since 1940.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 6 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: Irrigation use only for watering berries, garden, flowers etc.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Electric pump since 1950.

8. The depth of water table: 60 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: 24 inch drilled well, 60 feet deep, but water rises to 30 feet from ground level.

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: 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: Maurice Work

Date: January 14, 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, 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.

Own: Albert Helmerich
Address: Florence Street

Date well started: Nov. 27, 1972
Well completed: Dec. 35, 1972

Type of well: Drilled
Equipment used: Rotary

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

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: 11,800 gal

<table>
<thead>
<tr>
<th>Site</th>
<th>Size of</th>
<th>Surface</th>
<th>Depth to</th>
<th>Kinds of Water level</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Depth</td>
<td>Weight</td>
<td>Perforations</td>
<td>0 to 54 ft.</td>
<td>50 ft - 120 ft.</td>
</tr>
<tr>
<td></td>
<td>5 3/4&quot;</td>
<td>I.D.</td>
<td>0</td>
<td>60 feet</td>
<td>Gravel packing, cementing, packers, type of shut-off</td>
</tr>
<tr>
<td></td>
<td>4&quot;</td>
<td>60</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 1/2&quot;</td>
<td>116.6</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 40 ft.
Pumping water level: 50 ft.

Pumped: 95 gallons per minute, measured 60 minutes after pumping began.

*Measured from ground level.

Well developed by: bite for 2 hours.
Power: 1/2 HP, 1/2 HP Pump

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

Driller's Signature: Albert Helmerich
Driller's Address: Medicine Lake

LICENSE NO. 104
STATE OF MONTANA
County of Sheridan.
Filed this 27th day of Dec. A.D. 1927
at 12.52 o'clock P.M.

[Signature]
County Recorder.
<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>2</td>
<td>ATOR, HENRY</td>
<td>Well Log</td>
<td>3123554</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>JOHNSON, ANDY</td>
<td>C.W. 2</td>
<td>3311631</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>TEEFE, HOWARD</td>
<td>C.W. 2</td>
<td>3032007</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>KAMPEN, KINUTE</td>
<td>Well Log</td>
<td>328033</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>ROAR MEL CO</td>
<td>C.W. 2</td>
<td>331918</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>KAMPEN, KINUTE</td>
<td>Well Log</td>
<td>328034</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>KAMPEN, KINUTE</td>
<td></td>
<td>328032</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>KAMPEN, KINUTE</td>
<td>C.W. 2</td>
<td>331303</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>TEEFE, HOWARD</td>
<td>2</td>
<td>357266</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td>2</td>
<td>353204</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
<td>2</td>
<td>353205</td>
<td></td>
</tr>
</tbody>
</table>
# Water Well Log

**Owner:** Henry Aton  
**Address:** Plentywood, Montana

**Driller:** Howard Henderson  
**Address:** Plentywood, Montana

**Date Started:** Sept. 27, 1957  
**Date Completed:** Sept. 27, 1957

**Location:** Sec. 2  
**T. 53 N.**  
**R. 94 W.**  
**¾ sec. 8½s, R/E**

---

### Type of Well
- **Drilled**

### Equipment Used
- **Rotary**

### Water Use
- **Domestic**
- **Municipal**
- **Stock**
- **Irrigation**

### Casing
- **Type:**
- **Size:**
- **Gal.:**

### Perforated or Screened
- **Type:**

### Static Water Level
- For non-flowing well:

### Shut-in Pressure
- For flowing well:

### 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)

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

Owner: Andy Johnson
Address: Billings, MT
Date of Notice of Appropriation of Groundwater: 12-1-63
Date well started: 12-17-63 Date Completed: 12-19-63
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>8 1/2&quot;</td>
<td>4' steel</td>
<td>0</td>
<td>&lt;3'</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 7 feet
 Shut-in Pressure for Flowing Well: ______________________
 Pumping Water Level: 25 feet at 6 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 by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(under Chapter 237, Montana Session Laws, 1961)

Owner: Howard TePe
Address: Reserve

Driller: Raymond Foster
Address: Antelope

Date of Notice of appropriation of groundwater:

Date well started: June 20
Date completed: June 25

Type of well: Drilled
Equipment used: Cable Tool
(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>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>4 1/2</td>
<td>11 1/2</td>
<td>1.5</td>
<td>9.5</td>
<td></td>
</tr>
</tbody>
</table>

- Static Water Level for non-flowing well: 1.5 feet
- Shut-in Pressure for Flowing Well: 1.5 feet
- Pumping Water Level: 2.0 feet
- Discharge in gal. per min. of flowing well: 6 gal.
- How Tested: not tested
- Length of Test: 2 days
- Remarks: (Gravel packing, cementing, packers, type of cutoff)

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

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, time 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: 1880

Driller's Signature: [Signature]

[Diagram of well location and pumping levels]
STATE OF MONTANA
County of Sheridan
Filed this 29th day of November A.D. 1967
at 11:31 o'clock A.M.
L. W. Miller
County Recorder
Myrtle Hall
Deputy
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

STATE ENGINEER

Owner: Kante Kempen
Address: Reserve, Montana

Driller: Osmund Estessen
Address: Antelope, Montana

Date Started: July 15th, 1959
Date Completed: July 18, 1959

Location: Sec. 29 T 33 R 54 W 1/4 sec. 1/4 of SW 1/4

Type of well: bored
Equipment used: churn drill

Water use:
- Domestic [x]
- Municipal [ ]
- Stock [x]
- Other [ ]

Casing:
- Steel 4-inch
- Size:

Perforated or Screened:
- To ft.
- Ft.

Type of screen or perforations:

Static Water level, for non-flowing well:
- 35 feet to the standing water
- In feet.

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

Pumping water level:
- 50 feet at
- 5 gal. per min.

How tested:
- Test bucket and pump

Length of test:
- 2 hours

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

This well was bored and cased with steel casing without any packers or cementing being done and performs very well and the past two years has supplied water for 80 head of livestock.
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 20</td>
<td>light clay and sand</td>
</tr>
<tr>
<td>20 - 45</td>
<td>gumbo and light gravel</td>
</tr>
<tr>
<td>45 - 60</td>
<td>gravel and coal</td>
</tr>
<tr>
<td>60 - 82</td>
<td>Heavy gumbo structure. Water is coming from a coal structure.</td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Owner: Pata Neg Co. Address: Bentwood, Mont
Driller: Emond Estensen Address: Antelope, Mont

Date of Notice of Appropriation of Groundwater

Date well started: July 5, 62 Date Completed: Aug. 17, 62

Type of well: Drilled Equipment Used: Cable Tool
(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.

Static Water Level for non-flowing Well

Shut-In Pressure for Flowing Well

Pumping Water Level Feet at gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Meteor 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)

Show exact depth of bottom.

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
Owner: Kenta Lamson
Address: Reserve, Montana

Driller: Johnson & Stubben
Address: Medicine Lake, Mont.

Date Started: September 5, 1947
Date Completed: Sept. 5, 1947

Location: Sec. 19 T. 35 R. 54, 1/4 sec. N. 1/4 of the S. 1/4

Type of well: Drilled
Equipment used: Rotary
Type: Drill, driven, bored, or drilled

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

Industrial [ ] Drainage [ ] Other: [ ]

Casing: 0 ft. to 120 ft. Type: Steel Size: 4 inch
Casing: to ft. Type: Size:
Casing: ft. to ft. Type: Size:
Perforated or Screened: Ft. to ft. to ft. Ft. to ft.
Type of screen or perforations:

Static Water level, for non-flowing well: 20 feet to water feet.
Shut-in pressure, for flowing well: lb/sq. in. on: (date)
Pumping water level: 50 feet at 4.1/2 gal. per min.

How tested: Drillers test bucket and later a deep well pump.

Length of test: 15 hours.

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

This well was drilled and curved with 4 inch casing and gravel was then packed around casing as far down as it would go, there was no other shut-off or cementing used. This well has an abundance of water but has to be run through an iron filter to remove excess iron content. This water was tested for hardness and found to be 11 grains hard.

[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></td>
<td>0</td>
<td>35</td>
<td>light sand and limestone</td>
</tr>
<tr>
<td></td>
<td>35</td>
<td>45</td>
<td>gumbo soil</td>
</tr>
<tr>
<td></td>
<td>45</td>
<td>80</td>
<td>coal and some gravel with heavy coal vein at 55 to 80 feet.</td>
</tr>
<tr>
<td></td>
<td>80</td>
<td>120</td>
<td>light sand, finally a heavy sticky gumbo.</td>
</tr>
</tbody>
</table>
# WATER WELL LOG

**Owner:** Kauta Kemper  
**Address:** Reserve, Montana

**Driller:** Svenson and Meldon  
**Address:** Medicine Lake, Montana

**Date Started:** June 1st, 1925  
**Date Completed:** June 25, 1925

**Location:** Sec. 19 T. 33 R. 54 W. 1/4 of SW 1/4

## Type of Well
- **bored**
- **Equipment used:** churn drill

## Water Use
- Domestic [ ]  
- Municipal [ ]  
- Stock [X]  
- Irrigation [X]  
- Industrial [ ]  
- Drainage [ ]  
- Other: [ ]

## Casing
- 0 ft. to 67 ft.  
  - Type: steel  
  - Size: 4-inch
- 67 ft. to 97 ft.  
  - Type:  
  - Size:  
- 97 ft. to 127 ft.  
  - Type:  
  - Size:  

## Perforated or Screened
- 0 ft. to 67 ft.  
  - Type:  
  - Size:  
- 67 ft. to 127 ft.  
  - Type:  
  - Size:  

## Static Water Level, for non-flowing well:
- 40 feet

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

## Pumping Water Level:
- 10 feet at: 4 1/2 gal. per min.

## How Tested:
- Drillers test bucket and equipment

## Length of Test:
- 3 hours

## Remarks:
- (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
  
  **This well was completed with no packing or cementing used.**

---

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 30</td>
<td>Light sandy soil and coarse limestone</td>
</tr>
<tr>
<td>30 - 40</td>
<td>Gumbo structure</td>
</tr>
<tr>
<td>40 - 55</td>
<td>Light to heavy veins of coal</td>
</tr>
<tr>
<td>55 - 67</td>
<td>Heavy gumbo and heavy gravel</td>
</tr>
</tbody>
</table>

at final depth.
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

Owner: KNUTE KAMPEN
Address: RESERVE, MT.

Driller: OSMOND ETHERSON
Address: ANTELOPE, MT.

Date of Notice of Appropriation of Groundwater: June 7, 1961.

Date well started: June 7, 1961. Date completed: June 12, 1961.

Type of well: DRILLED
Equipment Used: Cable Tool
(Churn, drill, rotary or other)

Water Use: 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 the water rises in the well.

<table>
<thead>
<tr>
<th>Size of Drilled Hole (Feet)</th>
<th>Size and Weight of Casing (Feet)</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>11.260</td>
<td>40.430</td>
<td>11.180</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: **THIRTY** feet.
Shut-in Pressure for Flowing Well: **5900** psi.
Pumping Water Level: **5900** psi at **500** gal. per minute.
Discharge in gal. per min. of flowing well:

How Tested: **Yes**
Length of Test: **Yes**

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: 64
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 School of Mines and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
(Elev. above sea level: 2000)

Doc. No. 353206
Filed for record this 30 day of November, A.D. 1967, at 11:30 o'clock A.M.

Owner: 
Address: 
Receiver: 

Driller: 
Address: 
License No.: 

Date of Notice of Appropriation of Groundwater: May 2, 1968

Date well started: May 22, Date completed: May 24, 1968

Type of well: Drill Equipment Used: Pump
(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>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 x 3/4</td>
<td>9 1/2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 x 1/2</td>
<td>39 ft away from well</td>
<td>Kevon</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well 2 ft.
Shut-in Pressure for flowing well.
Pumping Water Level 2 ft. at 5 gal. per minute.
Discharge in gal. per min. of flowing well.

How Tested: Static water level

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

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

Show exact depth of bottom.

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

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

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

Driller's License Number
Driller's Signature
**Notice of Completion of Groundwater Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1963

(Under Chapter 237, Montana Session Laws, 1961)

Owner: **Howard Tafoe**
Address: **Reserve**

Driller: **Osmond Edwards**
Address: **Antelope**

Date of Notice of appropriation of groundwater: **6-14-65**

Date well started: **9-18-64**
Date completed: **9-29-64**

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

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>Size of Drilled Hole</th>
<th>Size and Weight of casing</th>
<th>From (Ft)</th>
<th>To (Ft)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 in</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: **140** feet at **500** gal. per minute.

Discharge in gal. per min. of flowing well

How Tested: **material test**

Length of Test: **7 days**

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

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

(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).
STATE OF MONTANA,  
County of Sheridan.  
Filed this 20 day of 
November A.D. 1969  
at 11:30 o'clock A. M.  
L. A. Nelson  
County Recorder  
Myrtle Keller  
Deputy
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 937, Montana Session Laws, 1961)

Owner, Address: Reserve

Date of Notice of appropriation of groundwater: June 6, 1967
Date well started: June 1967
Date completed: June 1967

Type of well: Hand
Equipment used: Chuck drill, rotary or other

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

Indicate on the diagram the character and thickness of the different strata met 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
Shut-in Pressure for Flowing Well
Pumping Water Level
Discharge in gal. per minute
How Tested: Electric pump
Length of Test: 10 days
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.

Shut-in Pressure

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

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

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

Driller's License Number
Driller's Signature

4/6/77
## GROUNDWATER INDEX

**County:** SHERTOAN  
**Twp.:** 33N  
**Rge.:** 55E

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropiater</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<td>16</td>
<td>OVERBY, STERRED</td>
<td>SW 1</td>
<td>334139</td>
<td></td>
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<tr>
<td>13</td>
<td>ANDREWS, ANDERSON</td>
<td>4</td>
<td>334129</td>
<td></td>
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<tr>
<td>13</td>
<td>EIDBEESS, ALLYD</td>
<td>4</td>
<td>334517</td>
<td></td>
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<td>EIDBEESS, ALLYD</td>
<td>4</td>
<td>334519</td>
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<tr>
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<td>LUND, HEREFORD RANCH</td>
<td>4</td>
<td>334422</td>
<td></td>
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<td>24</td>
<td>ANDERSON, HUGO</td>
<td>well 1</td>
<td>334510</td>
<td></td>
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<td>24</td>
<td>EIDBEESS, ALLYD</td>
<td>SW 1</td>
<td>334516</td>
<td></td>
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<tr>
<td>24</td>
<td>THE FORD NATIONAL PARK OF RESERVE</td>
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<td>334721</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>LAND, GEORGE</td>
<td>GW 2</td>
<td>333235</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>LUND, HEREFORD RANCH</td>
<td>GW 4</td>
<td>334720</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>LARSEN, ANDREW</td>
<td>4</td>
<td>334951</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>LARSEN, FARMS INC.</td>
<td>4</td>
<td>334949</td>
<td></td>
</tr>
</tbody>
</table>
**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>County</th>
<th>State of Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Administrator of Groundwater Code</td>
</tr>
<tr>
<td></td>
<td>Office of State Engineer</td>
</tr>
</tbody>
</table>

1. **E Spencer ST**
   - **Name of Appropriator**
   - **Address**
   - **Town**

2. The beneficial use on which the claim is based.
   - **Appropriated for such use**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.
   - **Approximately 1920**
   - **Last Used About 1945**

4. The amount of groundwater claimed (in miner’s inches or gallons per minute).
   - **Two (2) Gallons Per Minute**

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

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.
   - **Approximately 1920**

8. The depth of water table.
   - **300 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.
   - **Cased Well, Cased with Four Iron Screen Sections**

10. The estimated amount of groundwater withdrawn each year.
    - **Prior to 1945, Approx. 100,000 Gal./Year**

11. The log of formations encountered in the drilling of each well if available.
    - **N/A**

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.
    - **N/A**

Signature of Owner: [Signature]

Date: Jan 2, 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 Sheridan
Filed this 19 day of
A.D. 19-67
at 2:00 p.m.

L.V. Nelson
County Recorder
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Leonard Lyon, of Beaver, Mont.
   County of Beaver, 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:
   #1 NURSERY, LIVESTOCK
   #2 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " &n
STATE OF MONTANA

County of Sheridan

Filed this 22d day of June 1963

10:00 A.M.

J. D. Nelson
County 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)

<table>
<thead>
<tr>
<th>Name of Appropriator</th>
<th>Address</th>
<th>Town</th>
<th>County</th>
<th>State</th>
</tr>
</thead>
</table>

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: HOME AND GARDEN USE

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 20 years

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.
STATE OF MONTANA,

County of Sheridan

Filed this ______ day of November, A. D. 1962
at ______ o'clock A. M.

P. W. Nelson
County Recorder

By Margaret Hall
Deputy
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Allan Jones, of Reserve
County of Silver Bow, 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: Artesian

3. Date or approximate date of earliest beneficial use and how continuous the use has been: 1900 - 1919

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 20 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: 100 acres

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Jan. 1, 1900 - Dec. 31, 1919

8. The depth of water table: 100 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: 1.5 inches

10. The estimated amount of groundwater withdrawn each year: 2000 gallons

11. The log of formations encountered in the drilling of each well if available: No

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: Allan Jones
Date: 03-14-1962

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

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

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

County of Shepilan.

Filed this 10 day of

Dec. A. D. 1962

at 4:00 o'clock P. M.

L. D. Wilson
County Recorder

By Margaret Hall
Deputy
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Alton Edmonson of 1st Ave. Helena, 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:

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, 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. 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 Sheridan.

Filed this 10 day of December, A. D. 1903
at 4:00 o'clock P. M.

S. O. Johnson
County Recorder

By Myrtle Walker
Deputy
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

**Land Hereford Ranch**

### 1. Land Berefaed Ranch of Reserve

- **County of:** Sheridan
- **State of:** Montana

### 2. The beneficial use on which the claim is based: water for livestock - irrigation of small tract below wells - gravity.

### 3. Date or approximate date of earliest beneficial use; and how continuous the use has been: used continuously since 1942.

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

### 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: electrically operated pumps.

### 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: started in July of 1942 and completed same month.

### 8. The depth of water table: one well, located at house 60 feet deep.

### 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: both wells cased with 5-inch galvanized casing to bottom - as per depth above.

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

### 11. The log of formations encountered in the drilling of each well if available. not available - drilled by Gordon Estenson, Arltapes, Montana.

### 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:** December 30th, 1964

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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.

Originates to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Appropiator.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Luna Hayford Ranch

County of Sheridan
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.

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

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

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

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

7. The depth of water table.

8. 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.
**MONTANA BUREAU OF MINES AND GEOLOGY**  
Butte, Montana

**WATER WELL LOG**

- **Owner:** Harry Andrews  
- **Address:** Reserve, Mont.
- **Driller:** Bud C. Logan  
- **Address:** Butte, Mont.

**Date Started:** 6/27/58  
**Date Completed:** 6/30/58

**Location:** Sec. 24, T. 33N, R. 55E  
**Sec. 23, T. 33N, R. 55E  
**Sec. 31, T. 33N, R. 55E**

---

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(Churn drill, rotary, other)</td>
</tr>
</tbody>
</table>

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

**Casing:**

- **Type:**  
- **Size:**  
- **Stand:**  
- **Height:**

**Perforated or Screened:**

- **Type:**  
- **Size:**  
- **Stand:**  
- **Height:**

---

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

**Shut-in pressure, for flowing well:** 5 lb./sq. in. on: 6/30/58 (date)

**Pumping water level:** 10 feet at 89 gal. per min.

**How tested:** Centrifugal pump

**Length of test:** 3 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>1 - 5</td>
<td>Sandy clay</td>
</tr>
<tr>
<td>5 - 58</td>
<td>Coal sand &amp; Water</td>
</tr>
<tr>
<td>58 - 70</td>
<td>Sandy clay</td>
</tr>
<tr>
<td>70 - 72</td>
<td>Sand</td>
</tr>
<tr>
<td>72 - 75</td>
<td>Coal &amp; Water</td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE J\N 15 1964
OFFICE OF STATE ENGINEER

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

1. (Name of Approprietor) of (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 upon which the claim is based:

3. Date or approximate date of earliest beneficial use, and how continuously 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 water user:

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 12-11-1964

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 Approprietor.
STATE OF MONTANA,
County of Sheridan.

Filed this ___ day of January, A. D. 19__
at ___ o'clock A.M.

L. D. Wilson
County Recorder

By: Margaret Wallius
Deputy
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>The First National Bank of Reserve of Reserve, Montana</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>(Name of Appropriator)</th>
<th>(Address)</th>
<th>(Town)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>County of</th>
<th>State of</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheridan</td>
<td>Montana</td>
</tr>
</tbody>
</table>

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 of lawns**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **June 1956**

4. The amount of groundwater claimed (in inches or gallons per minute): **one inch 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: **Lawn only**

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **June 1st, 1956**

8. The depth of water table: **77 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: **5 ft casing drilled well - 77 feet**

10. The estimated amount of groundwater withdrawn each year: **50,000 to 60,000 gallons**

11. The log of formations encountered in the drilling of each well if available: **32995**

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: **This well drilled by David Anderson, Antelope, Montana**

<table>
<thead>
<tr>
<th>Signature of Owner:</th>
<th>The First National Bank of Reserve of Reserve, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>By David Anderson, Antelope, Montana</td>
</tr>
</tbody>
</table>

There, 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.

32995
STATE OF MONTANA
County of Sheridan.

Filed this______ day of __________.

at __________

at __________

Jeff Thule
County Recorder
Deputy

Record No.: 234921