<table>
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<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<td>3</td>
<td>Dick Stine</td>
<td>Gw4</td>
<td>302846</td>
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<td>Gw4</td>
<td>397064</td>
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<td>Gw4</td>
<td>397082</td>
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<td>4</td>
<td>Vicia J. Vaca</td>
<td>Gw4</td>
<td>425049</td>
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<td>Vicia J. Vaca</td>
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<td>391602</td>
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<td>Ralph W. Anderson</td>
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<td>5</td>
<td>Martin Lienar</td>
<td>1959</td>
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<td>Albert G. Jacob</td>
<td>Gw4</td>
<td>397181</td>
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<td>6</td>
<td>Albert G. Jacob</td>
<td>Gw4</td>
<td>397180</td>
<td></td>
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<tr>
<td>6</td>
<td>Albert G. Jacob</td>
<td>Gw4</td>
<td>397180</td>
<td></td>
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<tr>
<td>7</td>
<td>Robert M. Anderson</td>
<td>Gw4</td>
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<td>Robert M. Anderson</td>
<td>Gw4</td>
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<td>Gw4</td>
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<tr>
<td>11</td>
<td>Walter Johnson</td>
<td>1961</td>
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<td></td>
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<td>32</td>
<td>D. D. Wilson</td>
<td>Gw4</td>
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<td>33</td>
<td>James W. Meyers</td>
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<td>397323</td>
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<td>35</td>
<td>O'Neil, John B.</td>
<td>Gw4</td>
<td>428045</td>
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</tbody>
</table>
**WATER WELL LOG**

**Owner:** DICK STERRET  
**Address:** HAVRE

**Driller:** J. C. TOWNSEND  
**Address:** HAVRE

**Date Started:** 11-1-59  
**Date Completed:** 11-2-59

**Location:** Sec. 3, T. 32, R. 12, 1/4 sec. N.E. 1/4

<table>
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<tr>
<th>Type of Well</th>
<th>Equipment Used</th>
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</thead>
<tbody>
<tr>
<td>DUG, DRIVEN, BORED, OR DRILLED</td>
<td>CHURN DRILL, ROTARY, OTHER</td>
</tr>
</tbody>
</table>

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

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<th>Casing:</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ft. to 2 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 ft. to 11 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 ft. to 15 ft.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Casing:**  
- [ ] Perforated or Screened:  
- [ ] Type of screen or perforations:  
- [ ] Static Water level, for non-flowing well: __________ feet  
- [ ] Shut-in pressure, for flowing well: __________ lb./sq. in. on: __________ (date)  
- [ ] Pumping water level: __________ feet at __________ gal. per min.  
- [ ] How: __________  
- [ ] 4th of test: __________

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

- 2" PIPE DRIVEN TO 25 FT.  
- [ ]

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>Sand</td>
</tr>
<tr>
<td>70</td>
<td>Boulder</td>
</tr>
<tr>
<td>76 - 75</td>
<td>Yellow sandy clay</td>
</tr>
<tr>
<td>75 - 115</td>
<td>Silica sandstone</td>
</tr>
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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________________________
   County of __________________________ State of __________________________
   Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:

   N
   W
   E
   S

   Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

   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 __________________________
   Date __________________________

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; triplicate to the School of Mines and Quadruplicate for the Appropriator.
397096

DICK STEWART

TO

THE PUBLIC

DECLARATION OF INTENT OR INDIANATION DEED

Signed for record

Nov. 31, 1963

11 a.m.

[Signature]

[Handwritten note: 12.00 pds.
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 Jan. 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

Date

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
DECLARATION OF VESTED GROUNDWATER RIGHTS

STATE OF MONTANA
COUNTY OF HILL

Filed on o'clock a.m.
on DECEMBER 1, 1963

PEE: $2.00 pd.
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Dick Steerrett, of Havre
   (Name of Appropriator) (Address) (Town)
   County of Hill, State of Montana
   Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:

   2. The beneficial use on which the claim is based
      House in Battle

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been
      Aug. 1957

   4. The amount of groundwater claimed (in miner's inches or gallons per minute)
      /12

   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
      SILO PUMP

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
      Aug. 1957

   8. The depth of water table
      7 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
      75 ft cas. 11 220 ft deep

   10. The estimated amount of groundwater withdrawn each year
      4,000

   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
   Date

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
DECLARATION OF VEXED AND INJURED RIGHTS

STATE OF MONTANA,
COUNTY OF HILL,

Filed at Hill County Clerk.

ON DECEMBER 5, 1963.

FEE: $2.00 pd.

[Signature]
Bench
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by
the owner with the County Clerk and Recorder in the county in
which the well is located, last copy to be retained by driller.
Please answer all questions. If not applicable, so state, otherwise the
form may be returned.

Owner: 
Address: 
Date well started completed 
Type of well: DRILLED
Equipment used: CABLE TOOL Rig
Water Use: Domestic: , Municipal: , Stock: , Irrigation: , Industrial: , Drainage: , Other: , Garden/Lawn: 

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Field (Acre)</th>
<th>Rate and Stage of Pumping</th>
<th>Flow (g.p.m.)</th>
<th>Precautions</th>
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<tbody>
<tr>
<td>9%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5%</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Kind of Water</th>
<th>Flow (g.p.m.)</th>
<th>Precautions</th>
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</thead>
<tbody>
<tr>
<td>7%</td>
<td>86</td>
<td></td>
</tr>
<tr>
<td>1%</td>
<td>86</td>
<td></td>
</tr>
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</table>

Static water level: ft.
Pumping water level: ft.
at: gallons per minute, measured 180 minutes after pumping began.

*Measured from ground level.
Well developed by: 
Power Electric: HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature:
Driller's Address:

HAYLE, MONTANA 53507 LICENSE # 46

Show exact depth of bottom

54615
428404

VIRGIL & VERA CROSS

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA
COUNTY OF HILL

Filed at 12:00 a.m., P.M.

ON JUN 29, 1973

R. E. Bloom
COUNTY CLERK

Feu: $2.00 pd.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Virgil Cross
   (Name of Appropriator)  
   State of Montana
   (Address)  
   (Town)

County of Hill  
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
   Stalk Water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: August, 1955, Ever Since

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
   Sixty 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
  
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   Hand Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   August 1955

8. The depth of water table
   Forty, Eighty 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
   Depth: 82 Feet

10. The estimated amount of groundwater withdrawn each year
    55,300 Gals.

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

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
    [Other information]

Signature of Owner
Virgil Cross
Date Dec. 1, 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.
396867

VIRGIL CROSS

TO

THE PUBLIC

DECLARATION OF VESTED GROUNDWATER RIGHTS

STATE OF MONTANA
COUNTY OF HILL

Filed at __ o'clock P.M.

ON MAY 27, 1963

FEE: $2.00 pd.

COUNTY BLANK
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

1. RALPH W. ANDERSON, of SHAMBO, HAVRE

County of HILL 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. FORMSREAD MILL.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1946 HAS BEEN IN.

4. The amount of groundwater pumped (in miner's inches or gallons per minute). 10 GAL. 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. ELECTRIC PUMPS.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1946.

8. The depth of water table. 15 FT.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 20 FT. WITHOUT LANDING.

10. The estimated amount of groundwater withdrawn each year. 36.2,700.0 gal.

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

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: ___________ 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.
RALPH WO ANDERSON

TO

THE PUBLIC

DECLARATION OF VESTED
GROUNDWATER RIGHTS

STATE OF MONTANA
COUNTY OF HILL
Filed at 1:00 P.M.
ON OCT 23 1953

R. E. BLUM
COURT CLERK

FEE: $2.00 pd.
**WATER WELL LOG**

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>William Feuer</td>
<td>Havre, Montana</td>
<td>R. C. Simpson</td>
<td>Malta, Montana</td>
</tr>
</tbody>
</table>

- **Date Started**: June 5, 1959
- **Date Completed**: June 6, 1959
- **Location**: Sec. 5 T. 8 N. R. 17 E. 1/4 sec. 1/4, Hill County

**Type of well**: drilled

**Equipment used**: rotary

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

- **Casing**: 0 ft. to 134 ft. Type: n/a, Joint: n/a, Size: 4 inch
- **Casing**: ft. to ft. Type: n/a, Size: n/a
- **Casing**: ft. to ft. Type: n/a, Size: n/a

**Perforated or Screened**: Ft. 100 to ft. 134 Ft. to ft.

**Type of screen or perforations**: drilled holes

**Static Water level, for non-flowing well**: 27 ft.

**Shut-In pressure, for flowing well**: 10 lb./sq. in. on: (date)

**Pumping water level**: 60 feet at 15 gal. per min.

**How tested**: bailer; 2 hour run

**Length of test**: 2 hour run

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

- Gravel packed around the outside of casing; used bentonite on top of gravel to seal off surface

---

*S. W. Feuer* (over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
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<tbody>
<tr>
<td>0 - 2</td>
<td>brown sandy clay</td>
</tr>
<tr>
<td>2 - 35</td>
<td>brown clay w/ hard streaks</td>
</tr>
<tr>
<td>35 - 39</td>
<td>sandy brown clay turning to shale</td>
</tr>
<tr>
<td>39 - 48</td>
<td>light blue-green shale</td>
</tr>
<tr>
<td>48 - 90</td>
<td>grey shale</td>
</tr>
<tr>
<td>90 - 98</td>
<td>sandstone</td>
</tr>
<tr>
<td>98 - 100</td>
<td>rock layer</td>
</tr>
<tr>
<td>100 - 123</td>
<td>blue sandstone</td>
</tr>
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<td>123 - 125</td>
<td>rock layer</td>
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<td>blue sandstone</td>
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<td>light grey shale</td>
</tr>
<tr>
<td>Depth (ft)</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>------------------------</td>
</tr>
<tr>
<td>100</td>
<td>blue sandstone</td>
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<td>123</td>
<td>rock layer</td>
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<td>125</td>
<td>blue sandstone</td>
</tr>
<tr>
<td>130</td>
<td>light grey shale</td>
</tr>
</tbody>
</table>
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: EDWARD TOOTH
ADDRESS: HAVRE
COUNTY: HILL
STATE OF MONTANA

I HAVE APPROPRIATED GROUNDWATER ACCORDING TO THE MONTANA LAWS IN EFFECT PRIOR TO JAN. 1, 1962 AS FOLLOWS:

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

2. Date or approximate date of earliest beneficial use, and how continuous the use has been:
   7-1-1935

3. Date or approximate date of earliest beneficial use:
   7-1-1935

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

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

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:
   7-1-1935

8. The depth of water table:
   12 ft

9. Specifications of any other works for the withdrawal of groundwater:
   25 ft deep water well

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 TOOTH
Date: 12-31-1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
EDWARD T. TH

TO

THE PUBLIC

DECLARATION OF VESTED GROUNDWATER RIGHTS

STATE OF MONTANA
COUNTY OF BILL

Filed on 11:45 a.m.

ON THE 8TH DAY OF AUGUST

OFFICE OF COUNTY CLERK

Prel: 62.00 pd.
STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. Albert J. Jacob, of 1015-2nd St., Havre

(Name of Appropriator)

County of Hill

(Address)

State of Montana

Declared章237, Montana Session Laws, 1961, have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:

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

Watering of stock, household, irrigation

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

1943, steady

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

3 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

Albert Jacob Garden

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

Pipe and submersible pump

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

April 1, 1943 - April 1944

8. The depth of water table

9 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

Drilled well, inch casing from 75 feet

10. The estimated amount of groundwater withdrawn each year

3,000,000,000 per month

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

Rock formation, top soil, 3 feet hard pan, 3 feet sand

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 Albert J. Jacob

Date Dec. 8, 1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
397181

ALBERT J. JACOBS

TO

THE PUBLIC

DECLARATION OF VESTED
GROUNDWATER RIGHTS

STATE OF MONTANA
COUNTY OF BILL

Filed on [date]

By

[Signature]

Fees: $2.00 paid
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961). THIS ENGINEER

1. Albert J. Jacob, or 1015 2nd St. Hauser
   (Name of Appropriator) (Address)
   County of Hill State of Montana
   Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:

   N
   W

   Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

   2. The beneficial use on which the claim is based: Watering of livestock

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

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 20 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: Not used

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

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

   8. The depth of water table: 12 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: As deep, hand-dug 15 inch hole

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

   11. The log of formations encountered in the drilling of each well if available: 60 feet of subsoil, 3 feet of hardpan

   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: Don't know

   Signature of Owner: Albert J. Jacob
   Date: Dec. 34, 1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriorator.
397480

ALBERT J. JACKSON

TO

THE PUBLIC

DECLARATION OF VEED
COTTON Added 12th

STATE OF MONTANA
COUNTY OF BILL
Filed at 11 o'clock A.M.

On 21 January 1869

Pl 2.00 pd.
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: DOLC Address: East of Town
Driller: BOUNDARY RIVER ADDRESS: 1013 W. 1st St.
Date Started: 7-1-60 Date Completed: 6-1-60

Location: Sec. 6 T. 33 R. 17 1/4

Type of well: Drilled
Equipment used: Churn drill, rotary, other

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

Casing: 0 ft. to 15 ft. Type: [ ] Size: [ ]
Casing: 70 ft. to 116 ft. Type: [ ] Size: [ ]
Casing: [ ] ft. to [ ] ft. Type: [ ] Size:

Perforated or Screened: 0 ft. to 115 ft. 0 ft. to [ ] ft.

Type of screen or perforations:

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

How tested:

Length of test:

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

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Clay and sand</td>
</tr>
<tr>
<td>1</td>
<td>Clay and sand</td>
</tr>
<tr>
<td>50</td>
<td>Fine clay</td>
</tr>
<tr>
<td>70</td>
<td>sandstone</td>
</tr>
<tr>
<td>97</td>
<td>sandstone</td>
</tr>
<tr>
<td>70</td>
<td>sandstone</td>
</tr>
<tr>
<td>77</td>
<td>fine quartz</td>
</tr>
<tr>
<td>116</td>
<td>10 ft. of fine sandstone</td>
</tr>
</tbody>
</table>

Log of Well
DOCUMENT NO. 386804

ADRIAN DOLL
TO
THE PUBLIC

WATER WELL LOG

STATE OF MONTANA, COUNTY OF HILL
FILED AT 12:00 o'clock A.M.

ON
DEC 28 1961
G.C. YRON
COUNTY CLERK

By
DEPUTY

Fee $1.00 paid
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

RAFL HI AN D E R S O N, SHAM ROIT, H AL F E

County of SHELL, 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: 1950

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 1200 GALLONS

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

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: 1950

8. The depth of water table: 15 ft

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

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

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

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

Signature of Owner: Ralph W. Anderson
Date: Dec 23, 1963

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

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

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

THE PUBLIC

DECLARATION OF GRANTED
GROUNDWATER RIGHTS

STATE OF MONTANA,
COUNTY OF HILL

ON THE 28TH DAY OF DECEMBER, 1953

R. B. Blon

FEE: $2.00 PAID.
WATER WELL LOG

Owner: Victor Hanson Address: Havre, Montana
Driller: Herbert Freier Address: 281 N State St., Havre
Date Started: October 12, 1961 Date Completed: October 16, 1961
Location: Sec. 10 T. 32 R. 17 NE 1/4 of NE 1/4

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

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

Casing: 21' above ground level: 130 ft. Type: Spang-seamless Size: 7"
Casing: 126 ft. to 178 ft. Type: Spang-seamless Size: 6" Liner
Casing: [ ] ft. to [ ] ft. Type: [ ] Size: [ ]

Perforated or Screened: Ft. 120 to ft. 175 Ft. to ft.
Type of screen or perforations: 1/4" x 5" Perforations

Static Water level, for non-flowing well: 85 feet.
Shut-in pressure, for flowing well: [ ] lb. sq. in. on: [ ] (date)

Pumping water level: 160 feet at 5 gal. per min.

How tested: Baler

Length of test: 1 1/2 hours

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

Gravel packed with 3/4" gravel around 7" casing.

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Glacial Drift</td>
</tr>
<tr>
<td>56</td>
<td>Grey Shale</td>
</tr>
<tr>
<td>60</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>70</td>
<td>Sandy Grey Shale</td>
</tr>
<tr>
<td>78</td>
<td>Grey Sandstone</td>
</tr>
<tr>
<td>81</td>
<td>Sandy Grey Shale</td>
</tr>
<tr>
<td>86</td>
<td>Grey Sandstone</td>
</tr>
<tr>
<td>88</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>102</td>
<td>Sandy Grey Shale</td>
</tr>
<tr>
<td>110</td>
<td>Hard Grey Sandstone</td>
</tr>
<tr>
<td>112</td>
<td>Sandy Blue-Grey Shale</td>
</tr>
<tr>
<td>120</td>
<td>Grey Sandstone-Water—1 gal. per min.</td>
</tr>
<tr>
<td>123</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>130</td>
<td>Sandy Grey Shale</td>
</tr>
<tr>
<td>133</td>
<td>Hard Grey Sandstone</td>
</tr>
<tr>
<td>143</td>
<td>Grey Sandstone-Water—6 gal. per min.</td>
</tr>
<tr>
<td>176</td>
<td>Blue Shale</td>
</tr>
</tbody>
</table>
DOCUMENT NO. 385860

VICTOR HANSON

TO

THE PUBLIC

WATER WELL LOG

STATE OF MONTANA
COUNTY OF HILL

Filed at 3:00 o'clock P.M.

ON OCT 24 1961

G.C.TECH COUNTY CLERK

By ________________ DEPUTY

FEE $1.00- paid

<table>
<thead>
<tr>
<th>Depth</th>
<th>Sand Shale</th>
<th>Grey Sandstone</th>
<th>Sandy Grey Shale</th>
<th>Grey Sandstone</th>
<th>Blue Shale</th>
<th>Sandy Blue-Grey Shale</th>
<th>Water -- All per min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>75</td>
<td>81</td>
<td>86</td>
<td>88</td>
<td>92</td>
<td>100</td>
<td>110</td>
</tr>
<tr>
<td>102</td>
<td>110</td>
<td>112</td>
<td>120</td>
<td>123</td>
<td>125</td>
<td>127</td>
<td>129</td>
</tr>
<tr>
<td>130</td>
<td>123</td>
<td>125</td>
<td>129</td>
<td>135</td>
<td>135</td>
<td>135</td>
<td>135</td>
</tr>
</tbody>
</table>
## WATER WELL LOG

**Owner:** Victor Hanson  
**Address:** Havre, Montana

**Driller:** Herbert Freier  
**Address:** 231 N State St., Havre

**Date Started:** October 16, 1961  
**Date Completed:** October 20, 1961

**Location:** Sec. 17, T. 32 R. 17 1/4 sec. SE 1/4 of SE 1/4

### Type of Well
- Drilled

### Equipment Used
- Churn Drill

### Water Use
- Domestic
- Stock
- Irrigation

### Casing Details
- **Type:** Spang-seamless  
- **Size:** 7"  
- **Length Above Ground Level:** 73 ft.
- **Other Casing Details:**
  - **Type:** Spang-seamless  
  - **Size:** 6"

### Perforations
- **Type:** 1/4" x 5" Perforations

### Static Water Level
- **Height:** 30 ft.

### Shut-In Pressure
- **Height:** 30 ft.

### Pumping Water Level
- **Height:** 240 feet

### How Tested
- **Date:**
- **Rate:** 1 1/2 gal. per min.

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

---

**Signature:**

---

(over)
Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-20</td>
<td>Sandy Brown Clay</td>
</tr>
<tr>
<td>20-26</td>
<td>Quick-sand</td>
</tr>
<tr>
<td>26-42</td>
<td>Grey Clay</td>
</tr>
<tr>
<td>42-45</td>
<td>Gravel—Quick-sand</td>
</tr>
<tr>
<td>45-73</td>
<td>Dark Grey Shale—Soft</td>
</tr>
<tr>
<td>73-98</td>
<td>Dark Grey Shale</td>
</tr>
<tr>
<td>98-100</td>
<td>Sandy Greenish-Grey Shale</td>
</tr>
<tr>
<td>100-106</td>
<td>Grey Shale</td>
</tr>
<tr>
<td>106-111</td>
<td>Brown Shale</td>
</tr>
<tr>
<td>111-113</td>
<td>Dark Brown Shale—Coal—Water 1/2 gal. per min.</td>
</tr>
<tr>
<td>113-116</td>
<td>Bentonite</td>
</tr>
<tr>
<td>116-127</td>
<td>Brown Shale</td>
</tr>
<tr>
<td>127-130</td>
<td>Coal—Water 1/2 gal. per min.</td>
</tr>
<tr>
<td>130-133</td>
<td>Dark Brown Shale</td>
</tr>
<tr>
<td>133-145</td>
<td>Light Brown Shale</td>
</tr>
<tr>
<td>145-149</td>
<td>Sandy Grey Shale</td>
</tr>
<tr>
<td>149-151</td>
<td>Hard Grey Sandstone</td>
</tr>
<tr>
<td>151-153</td>
<td>Sandy Grey Shale</td>
</tr>
<tr>
<td>153-154</td>
<td>Hard Grey Sandstone</td>
</tr>
<tr>
<td>154-157</td>
<td>Grey Shale</td>
</tr>
<tr>
<td>157-168</td>
<td>Light Brown Shale</td>
</tr>
<tr>
<td>168-171</td>
<td>Dark Brown Shale</td>
</tr>
<tr>
<td>171-181</td>
<td>Light Brown Shale</td>
</tr>
<tr>
<td>181-183</td>
<td>Dark Grey Shale</td>
</tr>
<tr>
<td>183-186</td>
<td>Dark Brown Shale—Coal</td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>186 - 188</td>
<td>Dark Grey Shale</td>
</tr>
<tr>
<td>190 - 192</td>
<td>Dark Brown Shale—Coal—Water—Approx. 1/2 gal. per min.</td>
</tr>
<tr>
<td>193 - 200</td>
<td>Blue-Grey Shale</td>
</tr>
<tr>
<td>203 - 207</td>
<td>Brown Shale</td>
</tr>
<tr>
<td>207 - 211</td>
<td>Grey Shale</td>
</tr>
<tr>
<td>211 - 215</td>
<td>Blue-Grey Shale</td>
</tr>
<tr>
<td>215 - 221</td>
<td>Brown Shale</td>
</tr>
<tr>
<td>221 - 225</td>
<td>Blue-Grey Shale</td>
</tr>
<tr>
<td>225 - 230</td>
<td>Grey Sandstone</td>
</tr>
<tr>
<td>226 - 230</td>
<td>Blue-Grey Shale</td>
</tr>
<tr>
<td>230 - 255</td>
<td>Sandy Brownish-Grey Shale</td>
</tr>
<tr>
<td>235 - 256</td>
<td>Hard Grey Shell</td>
</tr>
<tr>
<td>236 - 240</td>
<td>Light Grey Shale</td>
</tr>
<tr>
<td>240 - 246</td>
<td>Sandy Grey Shale</td>
</tr>
<tr>
<td>246 - 254</td>
<td>Blue-Grey Shale</td>
</tr>
</tbody>
</table>
DOCUMENT NO. 385861

VICTOR HANSON
TO
THE PUBLIC

WATER WELL LOG

STATE OF MONTANA,
COUNTY OF HILL,
Filed at 3:00 o'clock P.M.
ON OCT 24 1961
G. CLYTON
COUNTY CLERK
By DEPUTY

Type of well
Water use: Domestic □ □ □ □ Stock □ □ □ □ Other □□□□
Casing: ft to ft. □□□□ Type □□□□ Size □□□□
Perforated or Screened: ft. to ft. □□□□ Type □□□□ Size □□□□

Location: Sec. T. R. M. sec.
Date Completed: □□□□

(Include art. sect. orquad.)
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: The Montana Power Co. Address: 40 E. Broadway, Butte

Driller: Robert M. Anderson Address: Cut Bank, Montana

Date of Notice of Appropriation of Groundwater

Date well started: Oct. 12, 1962 Date Completed: Oct. 29, 1962

Type of well: Drilled Equipment Used: Rotary

(Water, 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.

- Show exact depth of bottom.

Perforations

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Rise and Weight of casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>62</td>
<td>588-625</td>
<td></td>
<td></td>
<td>588 - 598</td>
</tr>
</tbody>
</table>

588-599 water sand

599-626 soft muddy sand

T.D. 622.07

Static Water Level for non-flowing Well: 200 feet.

Shut-in Pressure for Flowing Well: Not applicable

Pumping Water Level: Not known feet at 5 gal. per minute.

Discharge in gal. per min. of flowing well: Not applicable

How Tested: No test Length of Test: 0

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.

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.
THE MONTANA POWER COMPANY

TO

THE PUBLIC

NOTICE OF COMPLETION OF GROUND WATER APPROPRIATION BY MEANS OF WELL

STATE OF MONTANA
COUNTY OF HILL
Filed at 8 o'clock a.m.
ON NOV 27 1962
G. C. Yoon
COUNTY CLERK

By Deputy

Fee: $2.00 pd.
Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

1. The Montana Power Company, 40 East Broadway, Butte, Montana
   (Name of Appropriator)
   (Address)
   (Town)
   County of Hill, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is Domestic and Industrial use.
   (describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed: 5 gallons per minute.

4. The annual period (inclusive dates) of intended use: Year around.

5. The probable or intended date of first beneficial use: December 1, 1962

6. The probable or intended date of commencement and completion of the well or wells:

7. The location, type, size and depth of well or wells contemplated:
   Drill a 64" hole for 60 ft. casing to approximately 600 ft.

8. The probable or estimated depth of the water table or artesian aquifer: 505 - 600 ft.

9. Name, address and license number of the driller engaged: Robert M. Anderson
   License No. 120, Cut Bank, Montana

10. Give such other similar information as may be useful in carrying out the policy of this act:

   Signature of Appropriator: By:
   Date: November 15, 1962

* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn.

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
THE MONTANA POWER COMPANY

TO

THE PUBLIC

NOTICE OF APPROPRIATION OF GROUNDWATER

STATE OF MONTANA,
COUNTY OF HILL

Filed at 8 o'clock A.M.

ON

NOV 27 1962
G. C. Leon
COUNTY CLERK

By
DEPUTY

Fee: $2.00 pd.
Notice of Completion of Groundwater Appropriation by Means of Well

State of Montana
Office of State Engineer

Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
(Elev. above sea level)

Date of Notice of Appropriation of Groundwater

Date Well Started

Date Completed

Type of Well

Equipment Used

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></td>
<td></td>
<td>0</td>
<td>150</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...

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)

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

Driller's License Number

Driller's Signature
Doc. No. 368253

CLIFFORD HAUGEN

TO

THE PUBLIC

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

STATE OF MONTANA
COUNTY OF HILL
FILLED AT 11:00 o'clock A.M.
ON APR 11 1962

G. C. Yeon
COUNTY CLERK

By:
DEPUTY

Fee $2.00 Paid
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. O. B. Walken, of Box 421, Haurl
   (Name of Appropriator) (Address)
   County of Hill State of Mont.
   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 is stock water.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been is June 1, 1959.
   Continuous

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater is January 1, 1959.

8. The depth of water table is 10 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 is natural flow.

10. The estimated amount of groundwater withdrawn each year is 31 1/4 or 2 gallons.

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

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 is not applicable.

Signature of Owner: O. B. Walken
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 Appropriator.
397175

OL. B. WALLEN

TO

THE PUBLIC

DECLARATION OF VESTED
GROUNDWATER RIGHTS

STATE OF MONTANA
COUNTY OF HILL
Filed at... in Clerk's Office
ON 7-23-1853

COUNTY CLERK

FEE: $2.00 pd.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well
(Under Chapter 257 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 10 December 1963
Owner: James W. Davey
Address: 709 6th Ave., Havre, Mont.

Contractor (if any)
Address of Contractor
Date Started: 1930
Date Completed: 1963

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

Water rights were adjudicated at this location by the Courts in the early 1930’s. It is not entirely clear to me whether such water rights are included or whether it is necessary to file this form.

Water from these springs located on this form is used for domestic purposes, irrigation and stock water.

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.

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

Signature of Owner (James W. Davey)
Date: 12/11/63

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.
396454

W. A. DAVIS

TO

H. M. ROGIC

NOTICE OF CONSTRUCTION OF GROUND WATER APPROPRIATION WITHOUT WELL

STATE OF MONTANA,

COUNTY OF HILL

Filed at ___ o'clock ___ m

ON DEC 10 1963

R. E. Bloom, Deputy

Fee: $2.00 pd.
This form to be prepared by contractor (in days), authorized 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 Capital Bureau of Mines and Geology and untriplicate for the appropriator.
Count of Bail

I declare that the contents of the order and paper

are true, and that the matters and things therein stated are true.

Subscribed and sworn to before me, this ______ day of ________1773

John M. Wight

Notary Public for the State of Montana
Residing at ______________________

My Commission expires ____________________
## GROUNDWATER INDEX

**County:** Hill  
**Twp.:** 31  
**Rge.:** 8E

<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>7</td>
<td>Albert C. Lincoln</td>
<td>1960</td>
<td>380149</td>
<td>-</td>
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<td>7</td>
<td>Albert C. Lincoln</td>
<td>C610</td>
<td>396740</td>
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<td>9</td>
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<td>G041</td>
<td>394132</td>
<td>-</td>
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<td>Kety &amp; Oliver J. Unger</td>
<td>G041</td>
<td>394132</td>
<td>-</td>
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<td>Roger S. Stonec</td>
<td>G064</td>
<td>394710</td>
<td>-</td>
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<td>Albert C. Lincoln</td>
<td>C610</td>
<td>394710</td>
<td>-</td>
</tr>
</tbody>
</table>
# WATER WELL LOG

**Owner:** Albert C. Lincoln  
**Address:** Joplin, Montana

**Driller:** E. Kitchins  
**Address:** Augustus

- **Date Started:** 9-30-60  
- **Date Completed:** 10-7-60

**Location:** Sec. 31, T. 31, R. 8  
**1/4 sec.**

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## Water Use

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

---

## Casing

<table>
<thead>
<tr>
<th>Depth</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ft</td>
<td>147 ft</td>
<td>147 ft</td>
</tr>
</tbody>
</table>

- **Type:** Steel  
- **Size:** 6" OD

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## Perforated or Screened

- **From:** 14 ft  
- **To:** 147 ft  
- **Type:** Slite; two feet long

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## Static Water Level

**for non-flowing well:** [feet]

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## Shut-in Pressure

**for flowing well:** [lb./sq. In. on: 10-7-60]  
**(date)**

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## Pumping Water Level

**14.5 feet at:**  
**14 gal. per min.**

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## How Tested

- **Drilling**
- **Two Hours**

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## Remarks

- **Gravel packing, cementing, packers, type of shut-off, depth of shut-off**
  
  **Gravel** pack around casing also inside casing for seven feet, from 14.9 feet to 154.

---

**Albert C. Lincoln**

(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 - 1</td>
<td>top soil</td>
</tr>
<tr>
<td>1 - 47</td>
<td>sandy yellow clay</td>
</tr>
<tr>
<td>47 - 79</td>
<td>shale</td>
</tr>
<tr>
<td>89 - 100</td>
<td>shale, sandstone, a little water</td>
</tr>
<tr>
<td>100 - 130</td>
<td>alternating sandstone and shale</td>
</tr>
<tr>
<td>130 - 150</td>
<td>sandstone and some shale layers, minor water</td>
</tr>
</tbody>
</table>
ALBERT C. LINCOLN
TO
THE PUBLIC
WATER WELL LOG

STATE OF MONT.
COUNTY OF HILL

FILED AT 11:00 O'CLOCK A.M.
ON OCT 17
G.C. YEH
COUNTY CLERK

130 150
SOMETHING WALT (DEP GUN)
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. 
   Albert C. Lincoln
   Name of Appropriator
   2. The beneficial use on which the claim is based is livestock.

   (Address)

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

   

   

   

   

   Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

   

   

   

   

   

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater is September 1, 1960, to October 15, 1960.

   8. The depth of water table is 10 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 withdrawal of groundwater is a pump.

   10. The estimated amount of groundwater withdrawn each year is unknown, approx. 60,000 gal.

   11. The log of formations encountered in the drilling of each well, if available, is recorded at Hill County Clerk and Recorder.

   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 is unavailable.

   Signature of Owner
   Albert C. Lincoln
   Date: 12-20-63

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 Appropriator.
396740

ALBERT G. LINCOLN

TO

THE PUBLIC

DECLARATION OF WATER RIGHTS

STATE OF MONTANA,
COUNTY OF HILL

Filed on 1 o'clock, P.M.

ON DEC 23 1963

R. E. Blom
COUNTY CLERK

Fee: $2.00 pd.
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] of [Address], [Town], [County] 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

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

Date: 12-20-63

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 Appropriator.
STATE OF MONTANA

COUNTY OF HILL

Filed on 3:00 P.M.

Date: June 23, 1963

R. E. Blog

Secretary

Fee: $2.00 paid.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Katie Jensen and Elmer J. Jensen, of Inversness, Montana
   (Name of Appropriator) (Address) (Town)

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

2. The beneficial use on which the claim is based
   Domestic and Livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   1910 and has been used continually

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 800 hundred gallons daily

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; also is not suitable for irrigation

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   Approximately 1910 - removal equipment has been replaced from

8. The depth of water table
   Approximately 200 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
   Six inch drilled well 200 feet deep

10. The estimated amount of groundwater withdrawn each year
    290,000

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
    Do not know if record exists

   Signature of Owner: Katie Jensen
   Date: Dec. 7, 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 HILL

Filed at 8 o'clock A.M.

ON DEC 2 6 1963

R. E. Blow
COUNTY WELFARE

Fee: $2.00 pd.
**Declaration of Vested Groundwater Rights**
(Under Chapter 237, Montana Session Laws, 1961)

1. **(Name of Appropriator)**
   Address: ______________________
   Town: ______________________

2. County of ______________________
   State of ______________________

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

3. The beneficial use on which the claim is based
   ______________________

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

5. The amount of groundwater claimed (in miner’s inches or gallons per minute)
   ______________________

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

8. The estimated amount of groundwater withdrawn each year
   ______________________

9. The depth of water table
   ______________________

10. 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
    ______________________

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 HILL

Filed at 8 o'clock A.M.
ON DEC 23 1963
R. E. Blom
COURT CLERK

Fee: $2.00 pd.