STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. James J. Peterson of Big Sandy
   (Name of Appropnator)  
   (Address)  
   (Town)

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 The estimated amount of groundwater withdrawn each year _______________________________________________________________________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 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 Appropnator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
STATE ENGINEER

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

1. **(Name of Appropriator)**, of **(Address)**, (Town)

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

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

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

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

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

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

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

8. The depth of water table: **(Depth)**

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

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 The estimated amount of groundwater withdrawn each year: **(Amount)**

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

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

Signature of Owner: **(Signature)**

Date: **(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 School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Roy E. Parker, of Roy, Sanders, Montana

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

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

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

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: Roy E. Parker
Date: Dec 24, 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 School of Mines and quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

1. Peter Christofferson, of Big Sandy, County of Chouteau, 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 - Watering

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: December 1, 1962

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Entire output of well = less than 1 gallon per minute

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Commenced about November 15, 1961, completed December 1, 1961

8. The depth of water table: 8 FEET

9. So far as may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: An open well dug with a clam shell shovel 5 FEET D, DIAMETER, 1619 FEET DEEP, CONCRETE CURBING IS 12 FEET FROM BOTTOM, TREATED PLANK CURBING, 712 FEET REST ON CONCRETE CURBING AND EXTEND 3 FEET ABOVE THE GROUND

10. The estimated amount of groundwater withdrawn each year: 200,000 GALLONS

11. The log of formations encountered in the drilling of each well if available: First 9 FEET, CLAY AND SAND MIXED, NEXT 41/3 FEET, FINE SAND, NEXT 4 FEET, CLAY

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: Peter Christofferson

Date: March 13, 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 School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

PETER CHRISTOFFERSON
(Name of Appropriator)

Of BIG SANDY
(Address)

CHOUTEAU
(COUNTY)

MONTANA
(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

STOCK - WATERING

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

DECEMBER 1, 1961

CONTINUOUS SINCE THAT DATE

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

ENTIRE OUTPUT OF WELL = LESS THAN 1 GALLON PER MINUTE

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

NOT ADEQUATE FOR IRRIGATION, IRRIGATION NOT CONTEMPLATED

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

PLUMB, SEE PLAT

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

COMMENCED ABOUT NOVEMBER 15, 1961, COMPLETED DECEMBER 1, 1961

8. The depth of water table

8 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

OPEN WELL, DUG WITH 4 INCH SHELLSHOVEL, 6 FEET IN DIAMETER, 16 FEET DEEP, CONCRETE CURBING 12 FEET FROM BOTTOM, TREATED PLANK CURBING, 7 FEET RESTS ON CONCRETE CURBING AND EXTENDS 3 FEET ABOVE THE GROUND

10. The estimated amount of groundwater withdrawn each year

200,000 GALLONS

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

FIRST 8 FEET, CLAY AND SAND MIXED, NEXT 40 FEET, FINE SAND, NEXT 4 FEET, CLAY

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: MARCH 13, 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 School of Mines and quadruplicate for the Appropriator.
Groundwater Rights

Enter Christofferson

to

The Public

STATE OF MONTANA, The
COUNTY OF CHouteau

Filed: MAR 7 1907
m 1:00

George W. Harvey
County Clerk

Irma M. Harris

Vox: 1.00 Paid
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

STATE ENGINEER

1. Peter Christoferson, Big Sandy
(Name of Appropriator) (Address) (Town)
County of Chouteau 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-Watering

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: November 1, 1961.

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Commenced October 16, 1961, Completed November 1, 1961

8. The depth of water table: 14 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: An Open Well, dug with a Shovel, 6 feet in diameter, 24 feet deep, Concrete Curbing 18 28 feet deep and extends 4 feet above ground.

10. The estimated amount of groundwater withdrawn each year: 800,000 gallons

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

Signature of Owner: Peter Christoferson
Date: March 13, 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 School of Mines and quadruplicate for the Appropriator.
Groundwater Rights

Peter Christofferson

-to-

The Public

STATE OF MONTANA, T. 11
COUNTY OF CHouteau, 1st
Filed MAR 15 1982
by George W. Harvey
County Clerk
By Irene M. Harris
Deputy, Fee 1.00 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. CLARENCE EDWARDS, of BREEANDY, MONT.
   (Name of Appropriator) (Address) (Town)

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

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

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been.
      SEPTEMBER 18 TO THE PRESENT TIME

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

   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
      GARDEN PLOT NW1/4 NN1/4
      SEC. 18, T.39, R.11

   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
      SEPTEMBER 18

   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
      DRILLED WELL - 6" CASING - 140 FEET DEEP

   10. The estimated amount of groundwater withdrawn each year
      276,000 GALLONS

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

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

   Signature of Owner

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the land 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.
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. CLARENCE L. EDWARDS, of BIG SANDY
   (Name of Appropriator) (Address) (Town)
   County of CHOUTEAU State of MONTANA
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been
      CONTINUOUS SINCE SEPT. 1933

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

   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
      GASOLINE ENGINE PUMP

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
      SEPT. 1933

   8. The depth of water table
      NINE 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
      ONE WELL - SIX FEET DIAMETER
      DEPTH 20 FEET

   10. The estimated amount of groundwater withdrawn each year
      205,000 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

   Date: Nov. 18, 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 School of Mines and Quadruplicate for the Appropriator.
multivariate and bivariate regression with a large number of factors. It can be

further examined by means of high-definition scans and utilize multiple

methods. In addition, it can also be analyzed using various techniques. The

information obtained from these methods can be used to develop more

accurate models.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

STATE ENGINEER

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

1. JOHANNES B. HANSEN, of BOX 426 BIG SANDY
(Name of Appropriator) (Address) (Town)

County of CHouteau 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: STOCKWATER - IRRIGATION OF FRUIT TREES.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: OCT. 1938 TO PRESENT.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): NATURAL FLOW BY ACTUAL MEASUREMENT - 1 G.P.M. 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: 3 ACRES FRUIT TREES IMEDIATELY N.W. OF WELL.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: OCT. 1938 TO OCT. 1938.

8. The depth of water table: 7 FEET TO 7 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: 45 CASING TO 7 FEET, PERFORATE CASING TO 12 FEET.

10. The estimated amount of groundwater withdrawn each year: 30,000 - 32,000 G.A.U.

11. The log of formations encountered in the drilling of each well if available: 0 - 6, SHALE, 6 - 7, SANDY SHALE - BROWISH SANDSTONE, 7 - 12, CLAY.

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: IN PROGRESS OF RECORDING.

Signature of Owner: JOHANNES B. HANSEN
Date: 12-23-63.

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 School of Mines and Quadruplicate for the Appropriator.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1938
Owner: MRS. JOHANNE B. HANSEN
Address: BIG SANDY, MONTANA
Contractor (if any): SELF
Address of Contractor
Date Started: OCT 10-38, Date Completed: OCT 6 1954

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. DEVELOPMENT OF SPRING INDICATED ABOVE. PIT TYPE, 7 FT. TO TOP OF WATER, 11 FT. WATER STORAGE.

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. TWO CPM BY ACTUAL MEASUREMENT, WATER USE - STOCK WATER, WATERING FRUIT TREES, WEED SPRAYING AND INCIDENTAL.

Signature of Owner: JOHANNE B. HANSEN
Date: 12-23-43

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 School of Mines and Quadruplicate for the Appropriator.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: July 1962
Owner: STATE OF MONTANA, CHARLES E. HANSEN
Address: BIG SANDY, MONTANA
Contractor (if any): ERNEST GEYER
Address of Contractor: BIG SANDY, MONTANA
Date Started: 7-1-62, Date Completed: 7-2-62

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

DEEPENING OF SEEP AREA TO 18 FT. X 25' X 100' = 4.5 Ac
HOLDS 5' OF WATER NORMAL HEIGHT, LESS THAN 1 BPM SUPPLY

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.

QUANTITY OF WATER DEVELOPED AND USED

FOR STOCK WATER - ESTIMATE ABOUT 1/2 GAL. PER MINUTE.
THIS IS ON STATE LAND LEASE #47, 416

Signature of Owner: [Signature]
Date: Dec 23, 1962

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 School of Mines and Quadruplicate for the Appraiser.
<table>
<thead>
<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>345301</td>
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<td>2</td>
<td>David Eke</td>
<td>Gw2</td>
<td>370935</td>
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<td>David Eke</td>
<td>Gw2</td>
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<td>4</td>
<td>Fred C. Schmidt</td>
<td>Gw2</td>
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<td>7</td>
<td>Charles P. Hansen</td>
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</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

Fred E. Schmidt of Box Elder, Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

1. Name of Appropriatee: Fred E. Schmidt
   (Address): Box Elder, Montana
   (Town): Helena
   (State): Montana

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Continuous use summer July 1945

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: none

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: 1 inch cylinder 1 inch pipe operated by gas engine & pump jack

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: July 1945

8. The depth of water table: 187 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: Well drilled to a depth of 864 feet casing with 6" O. D. to a depth of 557 feet and lined from there on with 4" O. D. to the depth of 864 feet

10. The estimated amount of groundwater withdrawn each year: 1,200,000 gallons

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

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: Fred E. Schmidt
Date: 8/6/63

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.
Notice of Completion of Groundwater Appropriation by Means of Well

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

Owner: David Eve
Address: Big Sandy, Montana

Date of Notice of appropriation of groundwater: 3-17-62
Date well started: 3-17-62
Date completed: 3-23-62

Type of well: Drilled
Equipment used: Churn 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>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>6 3/4 O.D.</td>
<td>13 7/8 foot</td>
<td>Water coming in thru bottom of drive shoe at 198 level</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well 117 feet.
Shut-in Pressure for Flowing Well Not Appl.
Pumping Water Level 154 test at 7 gal. per minute.
Discharge in gal. per min. of flowing well Not Applicable.

How Tested: Test pump
Length of Test: 5 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.

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

Driller's License Number
Driller's Signature

53, 3/13
Notice of Appropriation of Groundwater
Appropriation by Means of Well

Date of Notice of appropriation of groundwater: _______ 19__

Date well started: _______ 19__

Type of well Drilled:

Water Use:

Pumping rate per minute:

Discharge in gallon per minute:

How Tested:

Length of Test:

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, third 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

Date: _______ 19__
Notice of Completion of Groundwater Appropriation by Means of Well

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

Owner: David Eve

Address: Big Sandy, Montana

Driller: H. L. Lane

Drilling Site Address: Havre, Montana

Date of Notice of appropriation of groundwater: 3-7-66
Date Well started: 3-7-66
Date completed: 3-16-66

Type of well Drilled: Gravelly

Equipment used: Cable Tool Rig

(Dug, driven, bored or drilled)

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

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

<table>
<thead>
<tr>
<th>Depth of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From Top (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 3/4&quot; OD 19&quot; per foot</td>
<td>2 3/8&quot; above ground</td>
<td>185</td>
<td>(No perforations)</td>
</tr>
</tbody>
</table>

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

Static Water Level for non-flowing well

Shut-in Pressure for Flowing Well: Not Applicable

Pumping Water Level: 152 feet at 5 gal. per minute

Discharge in gal. per min. of flowing well

How Tested: Pump

Length of Test: 5 hours

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

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

Driller's License Number

Driller's Signature

53, 314
# Notice of Completion of Groundwater Appropriation by Means of Well

**STATE OF MONTANA**

**ADMINISTRATOR OF GROUNDWATER CODE**

**OFFICE OF STATE WATER**

**Notice of Completion of Groundwater Appropriation by Means of Well**

**Developed As of January 1, 1950**

**United States of America**

**County**

**Date well started**

**Date completed**

**Type of well**

**Water use**

**Depth at which water is encountered**

**Discharge per minute in operating well**

**Remarked**

**Indicate location of well and place of use, if possible**

**Showing exact depth of bottom**

**Show exact depth of bottom.**

---

**Drawings and Diagrams**

- **Diagram of Groundwater Levels**
  - labeled with depth and water levels

**Table**

<table>
<thead>
<tr>
<th>Layer</th>
<th>Description</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sand and gravel</td>
<td>0.0</td>
</tr>
<tr>
<td>2</td>
<td>Grey clay</td>
<td>0.0</td>
</tr>
<tr>
<td>3</td>
<td>Soft grey clay</td>
<td>0.0</td>
</tr>
</tbody>
</table>

**Remarks**

- (Gravel, peaking, cementing, packing, etc., type of cutoff)

**Driller's License Number**

**Driller's Signature**

---

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

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

---

**Doc No. 370954**

**Filed for record**

**By the County Clerk of May**

**P.M.**

**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).
Notice of Completion of Groundwater Appropriation by Means of Well

Owner: Fred Schmidt
Address: Bozeman, Montana

Date of Notice of Appropriation of Groundwater: Aug 29, 1963

Date well started: Aug 29, 1963
Date Completed: Sept 3, 1963

Type of well: DRILLED
Equipment Used: Cable Tool Rig

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.

Static Water Level for non-flowing Well: 96 feet
Shut-in Pressure for Flowing Well: Not Applicable
Pumping Water Level: 160 feet at 120 gal. per minute
Discharge in gal. per min. of flowing well: Not Applicable
Length of Test: 3 hours

How Tested: 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: 416
Driller's Signature: Herbert Larson

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1955
Owner: Courtnage & Sons, Inc.
Address: Big Sandy, Montana 59520
Contractor: none
Address of Contractor: none
Date Started: 1955 Date Completed: 1955

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

Developed spring, with pipe and tank - gravity

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.

Sales per minute

Attest:

[Signature of Owner]

[Signature of Contractor]

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 School of Mines 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.

Owner
Address
Date well started
Date well completed
Type of well
Equipment used
Water Use
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

PERFORATIONS

Top of Ground (feet above sea level)

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

Driller’s Address
Driller’s Signature
LICENSE NO.
Number 370960

State of Montana
County of Choteau

Date: May 29, 1923

Received by

[Signature]

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

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: September 1955
Owner: Charles E. Hansen
Address: Big Sandy, Montana
Contractor (if any): S. E. F.
Address of Contractor:
Date Started: About 9-2-55; Date Completed: 9-2-55

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

Deepening intermittent spring to pit 14' deep by 100' long by 30' wide. Water depth varies from surface to 2' depth.

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:

Flow varies from about 3/4 c.g.p.m. down to 1/4 gal. per minute. Seasonal (estimate) used for stock water and for irrigation of trees.

Signature of Owner: Charles E. Hansen
Date: Nov. 23, 1963

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

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

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

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

**MONTANA BUREAU OF MINES AND GEOLOGY**

**Butte, Montana**

**RECEIVED**

**1** **1957**

---

<table>
<thead>
<tr>
<th>Owner</th>
<th>IhmSEN Well AssN.</th>
<th>Address</th>
<th>State Boundary, Mont.</th>
</tr>
</thead>
</table>

**Driller:**

**Date Started:**

August 1957

**Date Completed:**

June 1957

**Location:**

Sec. 30, T. 29 N., R. 12 E., 1/4 sec.

**SWIME**

---

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Dug</th>
<th>Equipment used</th>
<th>Dragline</th>
</tr>
</thead>
</table>

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

<table>
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<tr>
<th>Casing:</th>
<th>0 ft. to 22 ft.</th>
<th>Type</th>
<th>Concrete</th>
<th>Size</th>
<th>72 inch</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>Ft. to Ft.</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>Ft. to Ft.</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>Ft. to Ft.</th>
<th>Ft. to Ft.</th>
<th>Ft. to Ft.</th>
<th>Ft. to Ft.</th>
</tr>
</thead>
</table>

**Type of screen or perforations:**

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

13 feet

**Shut-in pressure, for flowing well:**

lb./sq. in. on: (date)

**Pumping water level:**

18 feet at 224 gal. per min.

**How tested:**

Centrifugal pumps

**Length of test:**

3 hours

**Remarks:**

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

- **The original well was dug by hand years ago. On this date old curbing was taken out, well cleaned and new curbing installed.**

---

(over)
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Thuesen Well Association

(Name of Appropriator)

County of Chouteau

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

Domestic, stock water and wood spray

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

1911 continuous to 1959 intermittent to 1956, continuous 1956 to present date

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

200 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 for irrigation

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

centrifugal pump and electric motor

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

dug and cased originally about 1911, new pumping and pump installed last in 1956

8. The depth of water table

9 ft to 18 ft from original ground level

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

dug, well 6 ft in diameter, 18 ft deep

10. The estimated amount of groundwater withdrawn each year

2,500,000 gallons

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

water comes from gravel deposit

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

Thuesen Well Association

Signature of Owner

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 School of Mines and Quadruplicate for the Appropriator.
**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL**

**MONTANA DEPARTMENT OF INDICATE THE CHARACTER, COLOR, THICKNESS OF STRATA SUCH AS SOIL, CLAY, SAND, GRAVEL, SHALE, SANDSTONE, ETC. SHOW DEPTH AT WHICH WATER IS FOUND AND HEIGHT TO WHICH WATER RISES IN WELL.**

**STATE OF MONTANA**

**ADMINISTRATOR OF GROUNDWATER CODE**

**MONTANA WATER RESOURCES BOARD**

**RECEIVED**

**[Date]**

**[County]**

**MAY 31, 1973**

(Under Chapter 187 Montiana 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's Name:**

**Address:**

**Date well started:**

**Type of well:**

**Equipment used:**

**Water Use:**

**Estimated Annual Withdrawal:**

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Depth of Casing</th>
<th>From (Ft)</th>
<th>To (Ft)</th>
<th>Mid Site</th>
<th>M Ft</th>
<th>Fr Ft</th>
<th>To Ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>7' 1/2</td>
<td>6'</td>
<td>0-50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5' 1/2</td>
<td>6'</td>
<td>0-50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5'</td>
<td>6'</td>
<td>0-50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

**Driller's Address:**

**LICENSE NO.:**

**Show exact depth of bottom**

---

**[Diagram]**

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

---

**Signed:**

**[Signature]**
STATE OF MONTANA
COUNTY OF CHOTEAU

Filed: May 29, 1923
at 3:09 p.m.

[Signature]

By:
Deputy

[Signature]

[Date] 1923
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Elmer R. Lund
   (Name of Appropriator)
   P.O. BOX 6289
   Big Sandy
   (Address)
   (Town)

   County of Chouteau
   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: Primary use is for the house.

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been since:
      Oct. 1, 1945, and has been in continual daily use since.

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

   5. If used for irrigation, the acreage and description of the lands to which water is applied and name of the owner thereof:
      Used for general irrigation only.

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

   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:
      35 ft. The water rises 15 ft. from the main.

   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:
      Each well is about 25 ft. deep. It is lined for the first 10 ft. from the bottom with glazed culvert tile 12" in diameter. The rest of the well is lined with curved cement wall blocks. This well is located in the basement of our dwelling house under the cement floor.

   10. The estimated amount of groundwater withdrawn each year:
       Approximately 30,000 gal. per yr.

   11. The log of formations encountered in the drilling of each well if available:
       Brown clay hardpan all the way down after setting through the top soil.

   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:
       The water is very hard from alkali salts.

   Signature of Owner:
   Date: Dec. 29, 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 School of Mines and Quadruplicate for the Appropriator.
DECLARATION OF ARTICLES OF GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Elmer B. Lund, of P.O. Box no. 1111, Big Sandy,
   (Name of Appropriator)
   (Address) flown)

   County of Chouteau, 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 is supply, emergency use with other wells, or
   headquarters.

3. The date of approximate date of earliest beneficial use and how continuous the use has been is well completed about
   Sept. 15, 1916. This well has been intermittent use since.

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

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

6. The means of withdrawing such water from the ground or other means of withdrawal of water.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   was completed about Sept. 15, 1916 after a week's work.

8. The depth of water is 38 ft. The water rises about 1 ft. from the bottom.

9. So far as is known, the type, size and depth of each well or other works for the withdrawal of groundwater. This is a drilled well about 25 ft. deep
   and has a 2 ft. steel casing. It is located between the house and barn.

10. The estimated amount of groundwater withdrawn each year is 0 to 10,000 gal. per yr.

11. The log of formations encountered in the drilling of each well if available. We encountered a brown clay hardpan after getting thru the top soil.

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
    evidence. I use this well for a supplemental supply of water when we are irrigating the garden and for emergency use when the electricity goes off or we have trouble with our water supply system.

   Signature of Owner: Elmer B. Lund
   Date: Aug. 25, 1942

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 School of Mines and
 Quadruplicate for the Appropriator.
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Elmer R. Lund
   (Name of Appropriator)

   County of Chouteau
   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 is for watering stock.

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

   This well was completed June 20, 1962, and has been in continual daily use since.

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

   10 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:

   Used for garden irrigation only.

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

   Installed an electric jet pump over well for withdrawal of water.

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

   Well completed June 20, 1962, after about three weeks' work.

   8. The depth of water table:

   The water rises 15 ft. from the well.

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

   This well is about 30 ft. deep. The first 20 ft. from the bottom are lined with gravel, the last 5 ft. in diameter. The rest of the well is lined with brick. This well is located in a small basement in the garage under a cement floor.

   10. The estimated amount of groundwater withdrawn each year:

   100,000 gal.

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

   After getting thru the top soil we encountered a brown clay 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:

   This well was dug by hand. The water is very hard from alkaline salts. I have the well under the house base.

   13. Signatures of Owner:

   Date: Dec 29, 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 School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Elmer B. Lund, of P.O. Box 259, Big Sandy,
   (Name of Appropriator) (Address) (Town)

   County of Chouteau, 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. This well is used for watering cattle on the range.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. This well was completed in 1958, it was in continuous use for 3 yrs, but I lost the lease on the land below the well so it has not been in use since.

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. I have a little 1 in. pipe starting from this well at 4 ft. under ground and running 100 ft down the coulee where it ran into a tank with a continual flow. This is not in use now.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. This well was completed early in 1958 after about 2 weeks work.

8. The depth of water table. 5 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. The well is 8 ft. deep and lined with a heavy steel curb. I plan to put a pump and motor on this well so I can provide water for this part of my range.

10. The estimated amount of groundwater withdrawn each year. 10,000 bbls. per yr.

11. The log of formations encountered in the drilling of each well if available. This well was dug in amyol ky. clay formation.

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 is in the bottom of a coulee toward the east end of my range.

Signature of Owner. /s/ Elmer B. Lund
Date Dec 29, 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 School of Mines and quadruplicate for the Appropriator.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
Developed After January 1, 1962
(Under Chapter 237, Montana Session Laws, 1961, as amended)
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 may be returned.

Owner: Ron L. Lund
Address: Big Sky, Mont.
Contractor (if any): None
Address of Contractor: None
Date Started: 1961 Date Completed: 1961

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.)
drilled spring

2. Means of withdrawing water (gravity, pump, canal, etc.)
gravity

3. Depth of water table

4. Use of the water
stock water

5. Amount of groundwater claimed (in miner's inches or gallons per minute) legal per minute

6. If used for irrigation, give number of acres and description of land

7. Estimate amount of water used each year

8. Months of year spring flows

Signature of Owner: Ron L. Lund
Date: 5/29/73

53,309
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1960

Owner: L. L. LIND

Address: BOX 237, BIG SANDY, MONT

Contractor (if any): R. D. DREW

Address of Contractor: BIG SANDY, MONT

Date Started: Sept. 6; Date Completed: Nov. 63

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

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent, estimate approximate lengths of periods of use.

Signature of Owner: L. L. Lind

Date: 9/25/63

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 School of Mines and quadruplicate for the Appropriator.
## Groundwater Index

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<tr>
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<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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**Notice of Completion of Groundwater Appropriation by Means of Well**

*Under Chapter 237, Montana Session Laws, 1963*

**State of Montana**

**Administrator of Groundwater Code**

**Office of State Engineer**

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**Top of Ground**

(Elev. above sea level: 2650)

**Well was previously drilled**

On Nov. 18, 1963 to depth of 35 feet commencing on gravel, reason for reopening well was that water was of inferior quality, unfit for cattle.

**Date of Notice of Appropriation of Groundwater**

March 26, 1964

**Date Completed**

April 3, 1964

**Type of well**

Drilled

**Equipment Used**

(Cut, drill, rotary or other)

**Water Use**

Domestic □ Municipal □ Irrigation □ Other □ 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.

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**Driller's License Number**

46

Driller's Signature

(Kenneth Green)

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 Appropriate!1.