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

William F. or Bernice K. Ellinghouse of 1614-39th
County of Missoula 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 use and irrigation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been __1957___ continually.

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. A plot 110' X 148'. The owner is William F. and Bernice K. Ellinghouse.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal ______ Deep well pump, at center of plot.

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

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. Deep well pump, 4" casing; depth 81'.

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 The estimated amount of groundwater withdrawn each year ______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 June 19, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Well on Highway 93

Owner: William Olson
Address: 444 Benton Ave, Missoula

Driller: Glenn Camp 705 Alder Ave, Missoula, Montana

Date of Notice of Appropriation of Groundwater: July 24, 1964

Date well started: July 24, 1964

Date Complete: July 29, 1964

Type of well: Drilled

Equipment Used: Churn
drill

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

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

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.

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

- Show exact depth of bottom.

Static Water Level for non-flowing Well: 40 feet.

Shut-In Pressure for Flowing Well:

Pumping Water Level: 40 feet at 81 gal. per minute.

Discharge in gal. per min. of flowing well:

How Test: Compressometer Length of Test: 2 hour

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

Driller's License Number

Driller's Signature

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

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

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

38471
I received and filed this Instrument for record on the 24th day of April, 1966 at 10:00 A.M. permanent files of Missoula County, State of Montana
Witness: Myrl L. Vermona J. Cassa, County Recorder
By: [Signature] Deputy
Fee [Amount] Paid
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Julia C. Hansen
(Name of Appropriator)

of 309 Russell St., Missouri
(Address)

County of Missouri, State of Montana
(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:

   Household

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1954 - Continuous Since

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 15 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 applicable

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

   None. 21st Missouri 24th

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1954

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:

   6 inches - drilled well 40 feet

10. The estimated amount of groundwater withdrawn each year:

   Unknown

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: Julia C. Hansen

Date: 12-27-63

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; Tripliate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

15,52
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 & Hutchins of 2343 South Avenue W Missoula
   (Name of Appropriator) (Address) (Town)

   County of Missoula State of Montana

   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1963, as follows:

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

   3. Date or approximate date of earliest beneficial use and how continuous the use has been 1943 - use has been continuous

   4. The amount of groundwater claimed (in miner's inches or gallons per minute) 300 gallons per hour

   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
   Elnora Hutchins

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

   Location - Center of lots in back

   7. The date of commencement and completion of the construction of the wells, wells, or other works for withdrawal of groundwater 1943 - do not know day or month

   8. The depth of water table 67'

   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, 100' depth, 10' casing

   10. The estimated amount of groundwater withdrawn each year Approximately 700,000 Gallons

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

   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: Elnora Hutchins
   Date: 12/31/163

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 Quaduplicate for the Appropriator.
I received and entered this instrument for
record on the 1st day of Dec., 19__
at______ o'clock, 19__. the permanent file
of Store No. ______ County,_____. Montana
Witness My Hand
By _______ Deputy
______ 19____.
Declaration of Vested Groundwater Rights

Under Chapter 237, Montana Session Laws, 1961

State of Montana
Office of State Engineer

Approver: Porsha-Pubbihtai Co. Hetaa. Menus>-

Kb No. T .13.™Jt_19™

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1 Erma E. Hutchinson

(Name of Appropriator)
of 2141 South Avenue W. Missoula
(Address)
(Town)

County of: Missoula
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 and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1943, use has been continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 500 gallons per hour

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 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: 1943 - do not know month and day

8. The depth of water table: 67'

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: Approximately 700,000 gallons

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

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: Erma E. Hutchinson

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

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

TRIPlicate

STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

1. Industrial Human Use: (Name of Appropriator) (Address) (Town)

County of: Name of State: 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: Industrial

3. Date or approximate date of earliest beneficial use: July 1929
   and how continuous the use has been: 6 Days per week

4. The amount of groundwater claimed: (in miner's inches or gallons per minute): 150 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: Not applicable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Not State, Not Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: July 13 to July 27, 1939

8. The depth of water table: 60

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: Type: Observation
   Diameter: 300
   Driven well

10. The estimated amount of groundwater withdrawn each year: 300,000

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: Not applicable

Signature of Owner:

Date: December 13, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

Owner: Laurel A. Karr
Address: Missoula, Montana

Driller: Liberty Drilling Co
Address: Missoula, Montana

Date of Notice of appropriation of groundwater: None filed.
Date well started: 9/16/70
Date completed: 9/19/70

Type of well: Drilled

Equipment used: Cable tools

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

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6 5/8&quot; OD x 7/8&quot;</td>
<td>+2</td>
<td>80</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well 43 feet.

Shut-In Pressure for Flowing Well Non-flowing 42

Pumping Water Level 65 feet at 300 gal. per minute.

Discharge in gal. per min. of flowing well Non-flowing

How Tested: Air Lift Pump

Length of Test: 9 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well through slots, openings in screen. Wells in this area can be depended upon to produce clear sand free water year after year as long as they are not overpumped.

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).

Lot 1 Block 2 Central Addition of Missoula

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

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

Driller’s License Number: 32, T.13N R.12W.

Driller’s Signature: 

52
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1962)
STATE ENGINEER

1. Francis E. & Loa E. LePrinere, of 1928 McDonald Ave., Missoula
(Name of Appropriator) (Address) Montana (County) 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 __irrigating

3. Date or approximate date of earliest beneficial use and how continuous the use has been __yearly since 1941

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

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: Carline Addition # 8, 5B (Block) McDonald Ave. Lots 21 through 30. The well is on 17 ft. of lot 25.

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

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

8. The depth of water table approximately 90 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 unknown

10. The estimated amount of groundwater withdrawn each year unknown

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

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 unknown

Signature of Owner
Date December 30, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: HARRY G. MACK
Address: 2415 CLARK ST., MISSOURA, MISSOURA

Date of Notice of Appropriation of Groundwater: Aug. 8, 1962

Type of well: SEALED DRILLED
Equipment Used: CEMENTED DRILLING
(dug, driven, bored or drilled)

Water Use: Domestic ☑️, Municipal ☑️, Other ☑️, Irrigation ☑️

Date well started: Aug. 8, 1962
Date Completed: Aug. 13, 1962

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

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

Static Water Level for non-flowing Well: 29 1/2 feet.

Shut-in Pressure for Flowing Well: 0

Pumping Water Level: 4 1/2 feet at 240 gal. per minute.

Discharge in gal. per min. of flowing well: 0

How Tested: AIR LIFT
Length of Test: 3 1/2 hrs.

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

IRRIGATING 5 ACRES

Driller's License Number: 32
Driller's Signature: WILLIAM F. CROCKET

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.
I received and filed this instrument for record on the 28th day of December, 1942, at 5:15 o'clock P.M., permanent files of Missoula County, State of Montana.

Witness my hand.

MARTIN E. BURKETT, County Recorder
By: [Signature] V. H. Sabin, Deputy
No. 1. 9-0-0. Filed.
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 297, Montana Session Laws, 1961)

Owner: Margie A. Hailey
Address: Missoula, Montana

Driller: Liberty Drilling Co.
Address: Missoula, Montana

Date of Notice of appropriation of groundwater: None filed

Date well started: 6/14/66
Date completed: 6/16/66

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.

Materials to be used in drilling, such as gravel, cementing, packers, type of shutoff.

Remarks: (Gravel packing, cementing, packers, type of shutoff). All water entering well is coming through the open bottom of six inch casing. Well with open bottom completions in this area can be depended upon to produce clear sand free water year after year as long as they are not overpumped, i.e., they should (Continue on reverse side).

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

Show exact depth of bottom.

Bottom of hole 70'
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

The Montana Power Company
of 40 East Broadway
Butte

County of Missoula
State of Montana

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

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Aug. 1954, 24 hrs. per day for each year since 1954

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 1,200 gallons per minute - 24 hours per day

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: Pumped from well

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   - Started drilling July 27, 1954
   - Well completed Aug. 10, 1954

8. The depth of water table: 50 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:
   - Well 12" steel casing - 117' deep

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

11. The log of formations encountered in the drilling of each well if available:
   - 0' to 100' silt and gravel
   - 100' to 117' gravel and some 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

(CORPORATE SEAL)

ATTEST:

Its Secretary

Signature of Owner:

Vice President

Date: February 1, 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.

The Montana Power Company, duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

The Montana Power Company of 40 East Broadway Butte
(Name of Appropriator)
(Address)
(Town)
County of Missoula 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. Municipal supply.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. May 1955, 24 hrs. per day for each year since 1955.

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 1,200 gallons per minute - 24 hours per day.

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. Pumped from well.


8. The depth of water table. 50'

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 182' 1.5' steel casing - 132' deep.

10. The estimated amount of groundwater withdrawn each year. 125,000,000 gallons.

11. The log of formations encountered in the drilling of each well if available. 0' to 111' clay, sand, gravel and some boulders 111' to 132' gravel.

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

(CORPORATE SEAL)

ATTEST: 

THE MONTANA POWER COMPANY

Signature of Owner By Vice President
Date February 1, 1962

Its Secretary

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.

372.
I received and filed this instruments for record on the 16 day of April 1947 at 11:50 o'clock A.M., in the records of Waukesha County, State of Wisconsin. 

Wife of my hand,

Martin E. Reynolds, Recorder
By: Edgar J. Pollard, Deputy

For 1947-40-3

Copy
Form No. 603-205  SEP 73

STATE OF MONTANA

Department of Natural Resources and Conservation

File No.

ATTACH TO

WELL LOG REPORT

State laws provide that this form be filed by the water well driller within 60 days after completion of the well, and Form 602, Notice of Completion of Groundwater Development, be filed by the well owner within 60 days after the water has been put to beneficial use.

1. WELL OWNER

Name: THE MONTANA POWER CO.
Address: Russell St., Missoula, Mt. 59801

Current

2. WELL LOCATION

Lot , Block , Subdivision

County , or Sec T. R.  

3. PROPOSED USE

domestic (includes lawn and garden); stock; municipal;  other (specify)

4. METHOD DRILLED

forward rotary, reverse rotary, jetted, other (specify)

5. WELL CONSTRUCTION

Diameter of hole in.; depth ft.

Casing: steel, plastic, concrete, threaded, welded, other (specify)

Pipe weight: lb/ft.

From To

49.5 lb/ft. in. + ft. ft.

Was casing left open end? Yes No

Was a well screen installed? Yes No

Material: (stainless steel, bronze, etc.)

Perforation type: slots holes

Size ft. to ft.

Was a packer or seal used? Yes No

If so, what material

Well type: Straight screen Graveled (use separate sheet if necessary)

6. WATER LEVEL

Static water level ft. below land surface

If flowing: closed-in pressure psi gpm flow through inch pipe

Controlled by: valve reducers other (specify)

7. WELL TEST

JTA Pump Bailer Other (if other, specify)

Pumping level below land surface:

38 ft. after hrs. pumping gpm

8. WELL LOG

Depth from To

Formation

Dft.

Formation drilled by

Top gravel

Gravel & tight boulders

Silty Sand & gravel

Clay and Soft Gravel

Clay, Gravel & Tight Boulder

Gravel & Water

Sand, Gravel & Water

Clay and Gravel

Sand & Water

9. DATE STARTED

April 5, 1976

DATE COMPLETED

May 13, 1976

10. WAS WELL PLUGGED OR ABANDONED? Yes No

If so, how?

11. DRILLER'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge.

CAND WELL DRILLING & PUMP SUPPLY 239

Driller's or firm name License No.

Address: 122 S. 14th W., Missoula, Mt. 59801

Signed by

Date: June 8, 1976
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.

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: Montana Power Co.
Address: Benton Ave.
Date well started: June 16, 1971
Well completed: July 2, 1971

Type of well: Drilled

Equipment used: Churn Drill

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐ Other ☐

*Describe 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

Size of Drilled Hole 16" ID 16" OD 2'
Height of Drilling 62.59 ft

PERFORATIONS

<table>
<thead>
<tr>
<th>Size (Feet)</th>
<th>From (Foot)</th>
<th>To (Foot)</th>
<th>Size (Feet)</th>
<th>From (Foot)</th>
<th>To (Foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>120</td>
<td>5/16&quot; x 4&quot; apart, Total 300 holes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static water level 38 ft
Pumping water level 50' 5" ft
at 1278 gallons per minute, measured 10 minutes after pumping began.

*Measured from ground level.

Well developed by Turbine Pump for 8 hours.

Remarks: Gravel packing, cementing, packers, type of shutoff...

THE MONTANA POWER COMPANY
By: Vice President

APPROPRIATOR

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

Driller's Signature: Ray Enders
Driller's Address: 1522 S. 16th W., Missoula, Montana 59802

LICENSE NO.

Show exact depth of bottom
I received and filed this instrument for record on the 13th day of Sept. 1932.

A. M. Johnson

Minneapolis County, State of Minnesota

Witness our names:

B. E. G. County Recorder

By: D. D. Smith, Deputy

Plate No. 5. C. M. Paid
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF APPROPRIATION OF GROUNDWATER
(Under Chapter 237, Montana Session Laws, 1961, as amended)

After filing a notice of appropriation, in order to acquire a right based thereon, the person must, within ninety (90) days, commence actual excavation and diligently prosecute construction of a well and, upon its completion, file a notice of completion with the County Clerk of the county in which the appropriation is located.

Three copies of this notice are to be filed 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 may be returned.

1. I, THE MONTANA POWER COMPANY of 40 E. Broadway, Butte
   (Name of Appropriator) (Address) (Town)
   County of Silver Bow, 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 Municipal Supply
   (describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 1275 GPM

   The estimated amount of groundwater to be used annually 2,055 acre feet

4. The annual period (inclusive dates) of intended use January 1 through December 1

5. The probable or intended date of first beneficial use July 5, 1972

6. The probable or intended date of commencement and completion of the well or wells* July 2, 1972
   June 18, 1972

7. The location, type, size and depth of well or wells contemplated Benton Avenue,
   Missoula, 125 ft. - churn drill

8. The probable or estimated depth of the water-table or artesian aquifer 125 ft.

9. The name, address, and license number of the driller engaged Camp Well Drilling and Pump Supply, Missoula, Montana - License No. 7

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

   The name, address, and license number of the driller engaged

   Camp Well Drilling and Pump Supply, Missoula, Montana - License No. 7

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

   THE MONTANA POWER COMPANY
   Signature of Appropriator Vice President Date September 1, 1972

*As defined in the Code Sec. 1-65. "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 pressure or is artificially withdrawn.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. M & S Landus, Mkt
   (Name of Appropriator)

   County of
   (Address)  
   Missoula  
   (Town)   
   State  
   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

      Industrial

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been
      April 1, 1953
      Continuous

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

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
      March 24, to April 1, 1953

   8. The depth of water table
      65'

   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
      Ga Drilled 95'

   10. The estimated amount of groundwater withdrawn each year
      825,000

   11. The log of formations encountered in the drilling of each well if available
      Sand & Gravel Seam, 6'

   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

   Date: December 24, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1983
(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>Owner: VERNOLD COHSNER</th>
<th>Address: FITZMAN DR.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller: KEN WILLIAMS</td>
<td>Address: 1559 S. 5th W.</td>
</tr>
</tbody>
</table>

Date of Notice of appropriation of groundwater: NOV. 23, 67

Date well started: NOV. 23, 67

Date completed: DEC. 1, 67

Type of well: Drilled

Equipment used: Dug (Dug, driven, bored or drilled)

Water use: Domestic ☑️, Municipal ☐, Stock ☐, Irrigation ☐, Industrial ☐, Drainage ☐, Other ☐

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; I.D.</td>
<td>6-5/8&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Static Water Level for non-flowing well | 30 feet. |
| Shut-in Pressure for flowing well |         |
| Pumping Water Level | 60 feet at 80 gal. per minute. |
| Discharge in gal. per min. of flowing well | |

How Tested: COMPRESSOR

Length of Test: 2 hours

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

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

Show exact depth of bottom.

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

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

Driller's License Number: 151

Driller's Signature: K. Williams

42,997
<table>
<thead>
<tr>
<th>Owner</th>
<th>Vern Gehmser</th>
<th>Address</th>
<th>1616 2. 39th st</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>Glenn Camp</td>
<td>Address</td>
<td>Missoula, Montana</td>
</tr>
<tr>
<td>Date Started</td>
<td>March 20, 1961</td>
<td>Date Completed</td>
<td>March 24, 1961</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 22, T. 3, R. 9, W. 1/4 sec. S.E.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Type of well**: Drilled

**Equipment used**: Gehmian Drill

**Water use**: Domestic, Municipal, Stock, Irrigation

**Casing**: 8-1/2 in. to 10 in. Type... Size...

**Perforated or Screened**: 0 ft. to 6 ft. Type... Size...

**Type of screen or perforations**:...

**Static Water level**, for non-flowing well: 40 ft. from ground level...

**Shut-in pressure**, for flowing well: 15 lb./sq. in. on: (date)

**Pumping water level**: 48 feet at 14 gal. per min...

**How tested**: Ballast

**Length of test**: 2 hours

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

---

*Put in exact location and file all 3 copies with the County Clerk and Recorder*
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 — 6'</td>
<td>Pit</td>
</tr>
<tr>
<td>6' — 10'</td>
<td>Sand &amp; gravel</td>
</tr>
<tr>
<td>10' — 14'</td>
<td>Clay &amp; gravel</td>
</tr>
<tr>
<td>14' — 19'</td>
<td>Clay</td>
</tr>
<tr>
<td>19' — 28'</td>
<td>Clay &amp; gravel (a few boulders, a little water)</td>
</tr>
<tr>
<td>28' — 36'</td>
<td>Boulders &amp; clay</td>
</tr>
<tr>
<td>36' — 39'</td>
<td>Sandy clay</td>
</tr>
<tr>
<td>39' — 63'</td>
<td>Clay &amp; gravel (a little water)</td>
</tr>
<tr>
<td>63' — 65'</td>
<td>Sand &amp; gravel (a little water)</td>
</tr>
<tr>
<td>65' — 72'</td>
<td>Clay &amp; gravel</td>
</tr>
<tr>
<td>72' — 78'</td>
<td>Dirty sand &amp; gravel (some water)</td>
</tr>
<tr>
<td>78' — 80'</td>
<td>Silty sand &amp; water</td>
</tr>
<tr>
<td>80' — 84'</td>
<td>Clean sand &amp; gravel (water)</td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Katherine Solty
(Address)

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: [Irrigating]

3. Date or approximate date of earliest beneficial use; and how continuous the use has been since 1943:

4. The amount of groundwater claimed (in miner's inches or gallons per minute): [600 gpm]

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

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, walls, 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: Katherine Solty

Date: Dec 26, 1963

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

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

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

Mary Jean Stephenson
Owner
Address 2115 38th, Street
Missoula, Montana

Date well started 7/27/72
completed 7/29/72

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) County Block Addition No. 2

ESTIMATED ANNUAL WITHDRAWAL 52,560,000 gallons

<table>
<thead>
<tr>
<th>Size of Dilled Pipe</th>
<th>Rate and Weight of Gravel</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; 6 5/8&quot; OD x 1/4&quot;</td>
<td>+2</td>
<td>84'</td>
<td></td>
</tr>
</tbody>
</table>

Static water level 30 ft.*

Pumping water level 47 ft.*

at 100 gallons per minute, measured 968 minutes after pumping began.

*Measured from ground level.

Well developed by Air Lift Pump for 6 hours.

Power of Pump 30 HP

Remarks: Gravel packing, cementing, packers, type of shutoff, All water entering well through slot openings in water well screen. Wells in this area can be dem.

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

LIBERTY DRILLING COMPANY

Driller's Signature

Driller's Address 2500 Reserve Street

Missoula, Montana LICENSE NO. 52

Top of Ground Approx. above sea level 3160'

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>50</td>
</tr>
<tr>
<td>50</td>
<td>72</td>
</tr>
<tr>
<td>72</td>
<td>78</td>
</tr>
<tr>
<td>78</td>
<td>81</td>
</tr>
<tr>
<td>81</td>
<td>83</td>
</tr>
</tbody>
</table>

Driller's Signature

Driller's Address 2500 Reserve Street

Missoula, Montana LICENSE NO. 52

84 ft. Show exact depth of bottom

Water rises in the well 30 feet from surface.

57, 303
In excess of 50 to 60 percent of the tested capacity of the aquifer.

They are not operated, i.e., they should be pumped at times not
pended upon to produce clear and free water year after year as long
cont'd.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Richard and Donna Stewart, at Fifty-Dollar City, Missoula
(Name of Appropriator) (Address) (Town)

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

1. The beneficial use on which the claim is based: Household and Irrigation

2. The date or approximate date of earliest beneficial use; and how continuous the use has been since 1945 and been used: Continuous

3. The amount of groundwater claimed (in miner's inches or gallons per minute): Not Known

4. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: Lots 20, 21, 22, 23

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

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

7. The depth of water table: 58 ft.

8. The general specifications of any other works for the withdrawal of groundwater: Electric Pump 60 ft. Deep

9. The log of formations encountered in the drilling of each well if available: Not Known

10. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: Not Known

Signature of Owner: Donna Stewart
Date: 12/30/63

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.

19946
I received and filed this instrument for record on the 31st day of 1909 at 1:00 o'clock P.M., pursuant to the laws of Missoula County, State of Montana.

Witness my hand:
MARTIN H. BROWN, County Recorder
By: ______________ Deputy

Fore 7:30 A.M.Filed
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: Nancy J. Johnson
Address: 123 Main St.
Town: Hamilton
County of: Brown
State of: Montana

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

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

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

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: 10 acres, farmland

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Jan 3, 1962

8. The depth of water table: 20 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, 10 gpm

10. The estimated amount of groundwater withdrawn each year: 600,000 gal

11. The log of formations encountered in the drilling of each well if available: Clay, sand, gravel

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

Signature of Owner: Nancy J. Johnson
Date: December 31, 1962

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located. Please answer all questions. If not applicable, so state, otherwise the form will be returned.

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

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

1. Fergus Development Company, of St. Helens Bank, Missoula
   (Name of Appropriator)
   (Address)
   (Town)

   County of Missoula
   State of Montana

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

   2. The beneficial use on which the claim is based
      household water for over 50 homes, & golf courses
      Recreational area with room for 250 more homes

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been
      July 1966 and continuous thereafter

   4. The amount of groundwater claimed (in miner's inches or gallons per minute)
      Well #1 = 300 gpm; Well #2 = 150 gpm;
      Total 750 gpm

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

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
      Well located Lot 22, Blk. 1 Willow Addn of Missoula
      County, Montana

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
      Well #1 = Sept. 28, 1965; Well #2 = June 1965 (approx)

   8. The depth of water table
      Well #1 = 113 ft.; Well #2 = 72 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 #1: 5 in. D.B. casing 25.5 ft. per sq. ft., 110 ft. deep, perforated casing from 105 ft. to 115 ft., Worthington deep well turbine pump powered by 25 HP D.E., pump motor; Well #2: 120 ft. deep, perforated casing from 90 ft. to 120 ft. deep well pump powered 20 HP electric motor

   10. The estimated amount of groundwater withdrawn each year
      Wells #1 and #2 Total 25,000,000 gals.

   11. The log of formations encountered in the drilling of each well if available
      Well #1: 11 - Topsoil; 11'-20' gravel & sand; 20'-96' clay, sand, gravel; 96'-100' light gravel; 100'-115' sand, gravel, water; Well #2: 01'-72' clay, gravel; 72'-97' gravel, sand, water, 97'-100' clay and water; 100' - 120' gravel, water.

   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
      Revi Montana State Board of Health

   Signature of Owner
   [Signature]
   Date: Dec. 18, 1965

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
I received and recorded this instrument for
record on the 18th day of Dec., 1969,
at 9:00 o'clock P.M., permanent time
at Missoula County, State of Montana
Witness my hand:
MARTIN J. SEYMORE, County Recorder
By: ELIHU COWAN... Deputy
Dec. 18, 69... Paid
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, 1981)

Date of Appropriation of Groundwater: April 14, 1972
Owner: Robert W. Greene
Address: 108 39 1/4 St.
Missoula, Montana

Contractor (if any): None
Address of Contractor: None

Date Started: April 14, 1972
Date Completed: April 14, 1972

Describe means of obtaining groundwater without a well "as by
sub-irrigation and other natural processes". Include depth to
water when applicable. Natural springs were captured
and diverted into concrete pipe and run to open
ditch in street where it is appropriated and
brought underground. Depth at this point
about 3 feet below grade.

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.

Springs located: SW 1/4 SE 1/2 Sec. 15 T. 15 R. 19 W

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

NE 1/4 NE 1/4 Sec. 5 T. 15 R. 19 W

The formula: \[ \text{Quantity} = \text{Flow} \times \text{Velocity} \]

Signature of Owner: Robert W. Greene
Date: June 7, 1972

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.
I received and filed this instrument on Jan. 13, 1833, in accordance with the laws of the United States. Witness my hand.

[Signature]

Recorded on the 13th day of January, 1833, in accordance with the laws of the United States. Witness my hand.

[Signature]
As the Administrator of the Groundwater Code for the State of Montana, please take note of the following special instructions, in order to properly protect your groundwater.

**Special Instructions:** Please indicate on the attached form the use to which you are beneficially applying the water.

**NOTE:** Flowing water that is not derived at its source of elevation from the ground and which flows for a distance in a channel before being used in considered surface water, and therefore an entirely different appropriation procedure would be followed. Thank you.
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: CITY OF MISSOUA, Address: MISSOULA, MONT.
Driller: LIBERTY DRILLING CO., Address: MISSOULA, MONT.

Date of Notice of Appropriation of Groundwater: 7-6-67
Date well started: 11-26-67. Date completed: 12-4-67

Type of well: Drilled. Equipment used: Cable tools
(Chis, driven, bored or drilled)

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

Static Water Level for non-flowing Well
Shut-in Pressure for Flowing Well
Pumping Water Level
Discharge in gal. per min. of flowing well
How Tested: Air Lift pump Length of Test
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other pertinent information, including number of acres irrigated, if used for irrigation)

Driller’s License Number
Driller’s Signature

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

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

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

(Under Chapter 237, Montana Session Laws, 1961)

**1. Missoula County High School**  
(Name of Appropriate)  
(Addres)  
(Town)

**County of Missoula**  
(State of Montana)  

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

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

2. The beneficial use on which the claim is based: **For irrigation of Missoula County School grounds and football field**

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 600-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: 52 acres in plot plus about ten acres in football field at Fairgrounds

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

- Electric driven turbine pump

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

8. The depth of water table: Estimate about 50 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: 10' casing, 80' feet drilled

10. The estimated amount of groundwater withdrawn each year: 27,216,000-gallons for present irrigation purposes

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:

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.
I received and filed the instrument for record on the 3rd day of 【缺失】 19【缺失】 at 10 o'clock A.M. pursuant to the laws of 【缺失】 County, State of Montana.

Witness my hand:

MARTIN E. SCHURR
County Recorder

By:【缺失】. A. WHEELER, Deputy

P. H.【缺失】 F. P.【缺失】
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

The Montana Power Company, of 40 East Broadway, Butte
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

1. Name of Appropriator
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

The Montana Power Company

ATTEST:

Signature of Owner

Date: February 1, 1962

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Appropriator.
I received and filed this instrument for record on the 16th day of April, 1922, in the County Court of Missoula County, State of Montana. I

Witness my hand.

MARTIN E. BERNER, County Recorder

By: F. E. WALTER

Receiued $ 2.00, paid

192069
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

The Montana Power Company
of 132 E. Broadway
Missoula

County of Missoula
State of Montana

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

<table>
<thead>
<tr>
<th>W</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>19</td>
</tr>
<tr>
<td>19</td>
<td>X</td>
</tr>
</tbody>
</table>

2. The beneficial use on which the claim is based is located in the Missoula drainage area. The use is for residential irrigation on a Golf Course

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Well #1 = 300 gpm; Well #2 = 450 gpm; Total 750 gpm.

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. 2 wells; Both located Lot 22, Bl.1, Willows Add'n of Missoula County, Montana

7. The date of commencement and completion of the construction or the completion of the demolition of the wells, or other works for withdrawal of groundwater. Well #1 = Sept 24, 1945; Well #2 = June 1955

8. The depth of water table Well #1 = 113 ft; Well #2 = 72 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 #1: 115 ft, 20 HP, Electric motor; Well #2: 120 ft, 25 HP, Electric motor

10. The estimated amount of groundwater withdrawn each year. Wells #1 and #2 Total 25,000,000 gallons

11. The log of formations encountered in the drilling of each well if available. Well #1: 0' - 4' Topsoil; 4' - 20' Gravel & Soils; 20' - 90' Clay, sand, gravel; 95' - 98' Light gravel; 100' - 116' Sand, gravel, water. Well #2: 0' - 72' Clay, gravel; 72' - 97' Gravel sand, water; 97' - 101' Clay and gravel; 101' - 120' Gravel, water.

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. Refer to Montana State Board of Health

Dec. No. 22566795
Filed for record
This 16th day of November
A.D. 1972
By: 

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.
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962


Driller: Liberty Drilling Co., Address: Missoula, Montana.

Date of Notice of appropriation of groundwater: None filed.

Date well started: 7/26/66, Date completed: 8/27/66.

Type of well Drilled: Equipment used: Table tools

(Dug, driven, bored or drilled) (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.

Tested Air Lift Pump

Length of Test: 48½ hours

Remarks: (Gravel packing, cementing, packers, type of shut-off). All water entering well is coming through perforations in the casing. Wells with perforated casing.

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

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

Page 1 of 2
STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner: THE MONTANA POWER COMPANY</th>
<th>Address: Missoula, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller: Glenn Camp</td>
<td>Address: 705 Alder - Missoula</td>
</tr>
<tr>
<td>Date Started: June 21, 1957</td>
<td>Date Completed: July 4, 1957</td>
</tr>
<tr>
<td>Location: Sec. 33 T. 13N. R. 19W. 1/4 sec.</td>
<td></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Casing:</th>
<th>0 ft. to 118 1/2 ft.</th>
<th>Type</th>
<th>Seamless</th>
<th>Size: 12&quot; I.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type</td>
<td></td>
<td>Size</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type</td>
<td></td>
<td>Size</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type</td>
<td></td>
<td>Size</td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>90<code> to 115</code> ft. to ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of screen or perforations:</td>
<td>Mill Knife 3/8&quot; x 3&quot; 8 Holes per Foot</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

Pumping water level 90` feet at 1200 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' - 8'</td>
<td>Black Muck and Gravel</td>
</tr>
<tr>
<td>8' - 54'</td>
<td>Yellow Clay and Gravel</td>
</tr>
<tr>
<td>54' - 56'</td>
<td>Sand and Small Gravel - Some Water</td>
</tr>
<tr>
<td>56' - 77'</td>
<td>Clay and Gravel</td>
</tr>
<tr>
<td>77' - 86'</td>
<td>Sand and Small Gravel - Some Water</td>
</tr>
<tr>
<td>86' - 113'</td>
<td>Sand and Large Gravel with Water</td>
</tr>
<tr>
<td>113' - 127'</td>
<td>Clay and Gravel</td>
</tr>
</tbody>
</table>