896

215369

I received and filed this instrument for record on the 3 day of Dec 1963 at 10:34 o'clock A M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN E. BEHNKE County Recorder

By Marlene J. Behnke Deputy

Fee $ 3.00 Paid

GW 1

Approved Stock Form—State Publishing Co., Helena, Montana—39089

RECEIVED
MAY 16 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

File No.....

T. 13 R. 19

14

TRIPLICATE

County Mon

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

1. I, Michael John + Nina Harbine, of 2816 Rattlesnake Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula, State of Mont, 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 Household use for four houses including lawn irrigation
(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed
Enough for four houses + lawn irrig.

4. The annual period (inclusive dates) of intended use Yearly all year

5. The probable or intended date of first beneficial use Has been in use for years

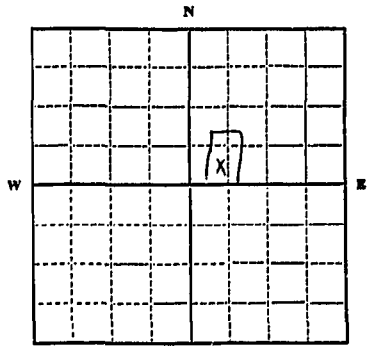
6. The probable or intended date of commencement and completion of the well* or wells*
around 1927 on

7. The location, type, size and depth of well or wells contemplated Not applicable

8. The probable or estimated depth of the water table or artesian aquifer Not applicable

9. Name, address and license number of the driller engaged Not applicable

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



NW 4 NE 1/4 Sec. 14 T. 13N R. 19W
Locate well or other means of development as accurately as possible on the plat.

Doc. No. 2480; 331835
Filed for record
this 10th day of May
A. D. 1973, at 1:00
o'clock P.M.

Signature of Appropriator Nina Harbine

Date 4/16/73

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however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

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

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

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

53,129

2480 331835

I received and filed this instrument for record on the 10th day of May 1973 at 1:00 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By M. McCarraghy Deputy

Fee $2.00 Paid

14

RECEIVED
APR 2 1963

T. 13N R. 19W
County Missoula County

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

X			

Owner: Hendrickson Brothers Address: Rattlesnake

Driller: Glenn Camp 705 Alder Address: Missoula, Mont.

Date Started: Mar 6, 1960 Date Completed: Mar 12, 1960

Location: Sec. 14 T. 13 R. 19 ¼ sec.

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

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

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 21 ft. Type: Standard Size: 6" I.D. 19 lbs to Foot

Casing: ft. to ft. Type: Size:

Casing: ft. to ft. Type: Size:

Perforated or Screened: Ft. to ft. Ft. to ft.

Type of screen or perforations:

Static Water level, for non-flowing well: 10' From ground Level feet.

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

Pumping water level: No drawdown feet at 18' gal. per min.

How tested: Bailer

Length of test: 2 hours

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

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	13'	Boulders and gravel
13'	15'	Clay and gravel
15'	21'	Boulders, gravel and Water.

I received and filed this instrument for record on the 26 day of June, 19 60 at 3:00 o'clock P.M., pertinent files of Missoula County, State of Montana

Witness my hand

MARVIN S. BRINNER County Recorder

By [illegible] Deputy

Fee $ 1.00 Paid

49 170289 Copy

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
OCT 12 1971

County Missoula 14

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Edette Jackman Roman Jackman

Address 1942 Wylie
Missoula, Montana

Date well started Sept 28, 1971
completed Sept 29, 1971

For Administrator's Use
File 2188/30836.5 October 4, 1971 2:00 pm
GW 1

Type of well Drilled (Dug, driven, bored or drilled)

Equipment used Churn Drill (Churn drill, rotary or other)

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).

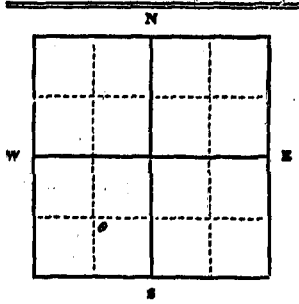
ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"ID	6"ID 17 lb per ft.	1' above g.l.	47½'			

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	6	Fill Dirt & Cobblestones
6	16	Clay, Gravel & Boulders
16	38	Clay, Sand & Gravel with seep of water
38	43	Clay, Gravel, Cobblestones with seep of water
43	45	Gravel, Cobblestones & Water
45	47	Clay, Gravel, & Cobblestones
47	47½	Sand Gravel & Water

47½' Show exact depth of bottom



Static water level 16 ft.*
Pumping water level 26 ft.*
at 50 gallons per minute,
measured 1 minutes after pumping began.
*Measured from ground level.
Well developed by compressor
for 1 hours.
Power Does not Pump apply HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

SE ¼ SW ¼ Sec. 14
T. 13 (N) S R. 19 E (W)

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

Driller's Signature Philip G. Bell

Driller's Address Camp Well Drilling & Pump Supply
1522 S. 14th W., Missoula, Montana 59801

LICENSE NO. 7

#2188

308365

I received and filed this instrument for record on the 6th day of April 1971 at 9:00 a.m. o'clock P.M. permanent files of Missoula County State of Montana

Witness my hand

Veronica R. Crouse, County Recorder

By Marie Fuchella Deputy

Fee $ 7.00 Paid Cash

C —Helena Independent Record

File No.....

TRIPLICATE

T. 13N R. 19W M.14

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 19 1963
STATE ENGINEER

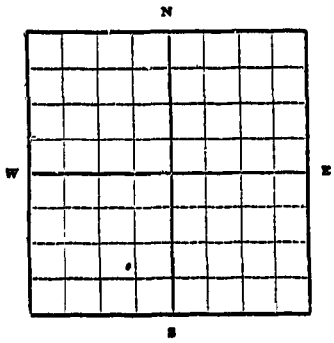
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Edetta F Jackman

1. Roscoe E (Elmer) Jackman, of 1942 Wylie 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, 1962, as follows:



SE ¼SW Sec. 14 T. 13 R. 19

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

Block 16 lots 1-24 incl. Park Addition

2. The beneficial use on which the claim is based Agriculture and floraculture

3. Date or approximate date of earliest beneficial use; and how continuous the use has been at least 1943 and each succession Season

4. The amount of groundwater claimed (in miner's inches or gallons per minute) at least 30 gallons per minute assume the clock during season

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 This water is piped in 1" p and spread to rows under sprinkler as in when needed during season just under 3 acres

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Hanman automatic Homeart pump in operation and use a 2,000 gal centrifugal pump for part time summer use

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater The dug well was put down in 1943

8. The depth of water table 25 feet in late fall 4-6 ft in irrigation season

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 Homeart automatic pump during irrigation season 1½" lift pipe 1" & 3/4" distributing pipes 35 lbs 50 lb. of pressure delivering from surface 6 ft below ground & 20 ft below ground. Centrifugal pump lifts thru 2" and discharges at 1½".

10. The estimated amount of groundwater withdrawn each year up to 3 inches inches as and when needed

11. The log of formations encountered in the drilling of each well if available Dug well in a former stream bed of Rattlesnake Creek Sandy 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 This property has an adjudicated right in the Hellenbeck Ditch for 2.25 miner's inches The Montana Power Co. pumps thru in the ditch but higher properties appropriate & use it. This feeds the underground stream & Han tapped

Edetta F Jackman

Signature of Owner Roscoe E Jackman

Date 12/18/63

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.

10425

427

214443

I received and filed this instrument for record on the 18 day of Dec 1962 at 9:02 o'clock A M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. BEHNER, County Recorder

By Ethel Lane Deputy

Fee $ 2.00 Paid

1—Helena Independent Record

File No.....

QUADRUPLICATE

T. 13 N R. 19 W. 14

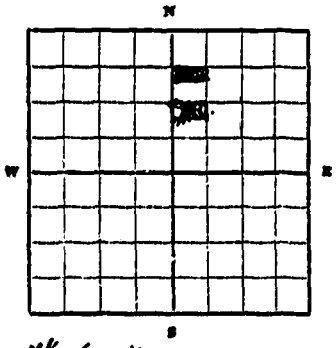
County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. CHARLES W. LEAPHART, of Route #4 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, 1962, as follows:



N½ of SW¼
NW¼ NE¼ Sec. 14 T. 13 R. 19 W

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

2. The beneficial use on which the claim is based Household, irrigation, livestock and farm purposes

3. Date or approximate date of earliest beneficial use; and how continuous the use has been May 1895--in uninterrupted use.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Ten (10) 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 piece and parcel of land in excess of one (1) acre, described as follows:

6. Beginning at the Southwest Corner of the SW¼NE¼ of Section 14, Twp. 13 N., Rge. 19 W. and running thence north along said quarter line 51 rods from a starting point; thence north 9 rods; thence east along a line parallel with the South line of said quarter, 20 rods, thence South 9 rods; thence West 20 rods to the place of the beginning.

7. The date of commencement and completion of withdrawal of groundwater During 1[illegible] well was deepened from 32 [illegible]

8. The depth of water table Varies from 17 feet at times in summer to much lower in winter months.

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 Original well was six (6) feet by six (6) feet and about 32 feet deep. In 1929 it was drilled four (4) feet deeper, encased and an electric pump installed.

10. The estimated amount of groundwater withdrawn each year Depends on dryness of year. In dry portions of year, the pump will work at full capacity.

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

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

Signature of Owner Charles W. Leaphart

Date December 12, 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.

9327

214290

Copy

I received and filed this instrument for record on the 13 day of Dec 1962 at 4:15 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder
By [illegible] Deputy
Fee $ 3.00 Paid

GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Missoula 14

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner C.W. LEAPHART

Address 2520 BRAYTON AVE.
MISSOULA, MONTANA

Date well started JUNE 13, 1973
completed JUNE 19, 1973

For Administrator's Use
File 65 527 593 743
June 26, 1973
GW 1 1:45 p.m.

Type of well DRILLED (Dug, driven, bored or drilled)

Equipment used CHURN (Churn drill, rotary or other)

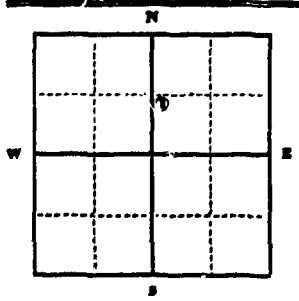
Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"I.D.	6-5/8"OD 17 lbs. 1/4"side-wall	ground level	57'6"	none	none	none



SW ¼ NE ¼ Sec. 14
T. 13 N R. 19 E W

Static water level 27 ft.*
Pumping water level 56 ft.*
at 25 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by test pump
for 2 hours.
Power 230 Pump 1 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Driller's Signature Kenneth J. Williams

Driller's Address 1558 So.5th.W. MISSOULA, MONTANA

LICENSE NO. 151

DRILLER'S LOG

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.

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
GL	1'	Black dirt and gravel
1'	11'	Tan clay,gravel and boulders
11'	34'	Tan clay,sand AND gravel
34'	48'	Sand,gravel and water
48'	57'6"	Sand,gravel,boulder and water

57'6" Show exact depth of bottom

5407K

333942

2927

I received and filed this instrument for record on the 26 day of June 1973 at 10:55 o'clock A M, permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By Mary Sheehy, Deputy

Fee $ 2.00 Paid

14

Form No. 18
8-60

T._____ R._____

County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

			X

Owner Earle J. Markiss Address Rattlesnake Missoula, Montana

Driller Glenn Camp 705 Alder Address Missoula, Montana

Date Started Oct 5, 1961 Date Completed Oct 11, 1961

Location: Sec. 14 T. 13N R. 19W ¼ sec. Lot 6 Block 2 Monte Vista Addition.

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

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other _____

Casing: 1' above pit ft. to 58'-1" ft. Type Seamless Size 6" I.D. 19lb

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. _____ to ft. _____. Ft. _____ to ft. _____

Type of screen or perforations _____

Static Water level, for non-flowing well: 39' to ground level feet.

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

Pumping water level 39' feet at 40 gal. per min. no draw down

How tested: Bailer

Length of test 2 hours

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

Put in exact location and file with the County Clerk & Recorder

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0'	8'	Pit
8'	46'	Clay ,gravel,a little sand & boulder
46'	64'	Sand ,gravel & water

I received and filed this instrument for record on the 6 day of Nov 19 64 at 10:42 o'clock A. M., permanent files of Missoula County, State of Montana

Witness my hand.

MARTIN S. BEINER, County Recorder

By Olga [illegible] Deputy

Fee $ ..... Paid

#93 186818 Copy

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—48557

File No. .....

DUPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED
LOG SEP 8 1970

T. 13 N R. 19 W

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION 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)

Owner Mrs. Bertha B. Patten O. M. Patten Address 2710 Brayton Ave. Missoula, Montana

Driller O.K.O. Drilling Address Box 670, Missoula

Date of Notice of appropriation of groundwater ----

Date well started March 31, 1970 Date completed April 25, 1970

Type of well Drilled (Dug, driven, bored or drilled) Equipment used Churn drill (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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" 17#	1 up	90	---	----	----

Top of Ground

(Elev. above sea level .....)

0- 3 Topsoil

3-28 Yellow clay

28-75 Boulders, clay and gravel

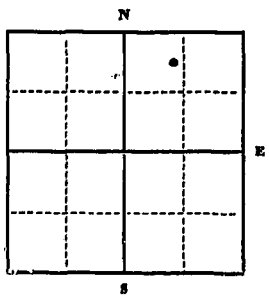
75 Static water level

75-90 Boulders, gravel, water and traces of clay

90 Exact depth of bottom

Show exact depth of bottom.

Doc. No. 294539
Filed for record this 2 day of September A. D. 19 70, at 3:02 o'clock P M.



NW ¼ NE¼ Sec 14 T13N R19W

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

Static Water Level for non-flowing well 75 feet.

Shut-in Pressure for Flowing Well ---

Pumping Water Level 77 feet at 20 gal. per minute.

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

How Tested Bailer and Test pump

Length of Test 7 hours

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

(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).

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.

185
Driller's License Number

Charles F. Hellenstein
Driller's Signature.

47455

2036 294539

Filed received and filed this instrument for record on the 2nd day of Sept 1970 at 3:02 o'clock P M. permanent files of Missoula County, State of Montana

Witness my hand:

Veronice B. Crouse, County Recorder

By M. M. Conaghey Deputy

Fee $2.00 Paid

GW

Approved Stock Form—State Publishing Co., Helena, Montana—42234

C-14

File No.

T 13 N R 19 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963
STATE ENGINEER

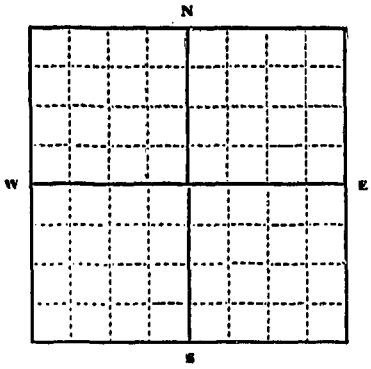
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Henry T. Murray (Name of Appropriator), of 2404 Brayton Ave. (Address) Missoula (Town)

County of Missoula State of Montana

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



SW¼ NE Sec. 14 T. 13N R. 19 W

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

2. The beneficial use on which the claim is based: Household Use and Lawn Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: There has been a well on this place since around 1900. Exact date unknown

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: Lawn and garden Lots 3, 4, 5, 6, 8, 9, Block 2 Murray Tracts

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Jet pump located rear 30 ft Lot 7, Block 2 Murray Tracts

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Dug well was replaced with a well drilled in 1952

8. The depth of water table: Approximately 45 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 depth of 66 feet, cased with 6 inch steel casing

10. The estimated amount of groundwater withdrawn each year: 109,500 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: Nothing has ever been placed of record to my knowledge

Signature of Owner: Henry T. Murray

Date: December 31, 1963

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

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

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

20450

8

12-1

copy

I received and filed this instrument for record on the 2 day of Jan 1964 at 2:17 o'clock P.M. permanent files of Missoula County, State of Montana

Witness my hand
MARTIN G. BEHNER, County Recorder
By Estell Lane Deputy
Fee $2.00 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4855

File No. _____

MONTANA WATER RESOURCES BOARD
RECEIVED
JAN 30 1970

T. 13 R. 19 E

DUPLICATE

County MISSOULA

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION 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)

Top of Ground

(Elev. above sea level _____)

0- 7 Pit

7- 9 Clay

9-11 Sand, gravel and boulder

11-17 Clay and gravel

17-45 Gravel, boulders, and sand

47 Static water level

45-55 Gravel, sand and clay

55-68 Water, sand and gravel

68-72 Clay and broken gray rock

72-79 Gray rock

79 Bottom of hole

Owner Henry T. Murray Address 2413 Murray Dr. Missoula, Montana

Driller O.K.O. Drilling Address Box 670, Missoula

Date of Notice of appropriation of groundwater ----

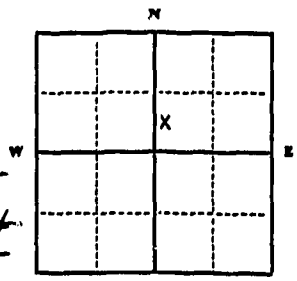
Date well started Aug. 13, 1969 Date completed Aug. 22, 1969

Type of well Drilled (Dug, driven, bored or drilled) Equipment used Churn drill (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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	17# 6"	6' down	68'	---	---	---



SWNE ¼ Sec. 14 T. 13 R. 19

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

Static Water Level for non-flowing well 47' feet.

Shut-in Pressure for Flowing Well ---

Pumping Water Level 51' feet at 25 gal. per minute.

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

How Tested Bailer

Length of Test 3 hours

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

(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).

Doc. No. 288289
Filed for record this 28 day of January A. D. 19 70, at 1:15 o'clock P.M.

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.

185
Driller's License Number

Charles Wellington
Driller's Signature.

46122

288289

$ #1956

I received and filed this instrument
recorded on the 28 day of Jan 1990
at 1:15 o'clock P.M. [illegible]
of Missoula County State of [illegible]
Witness my hand
Vivian B. Crouse, County Re[illegible]
By M. M. Conaghey
Fee $ 2.00 cash

GW 1

Approved Stock Form—State Publishing Co., Helena, Montana—38309

14

File No.....

T 13N R 19W

DUPLICATE

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUL 2.. 1964
STATE ENGINEER

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

1. I, THE MONTANA POWER COMPANY (Name of Appropriator), of Missoula (Address) (Town) County of Missoula, 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 Use

(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 800 GPM

4. The annual period (inclusive dates) of intended use May to October (1964)

5. The probable or intended date of first beneficial use July 1964

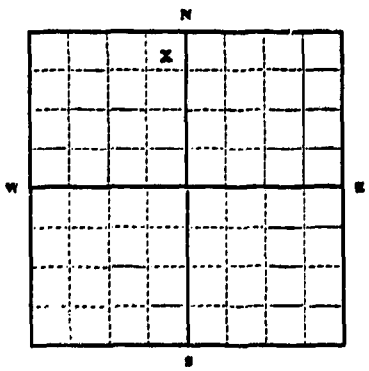
6. The probable or intended date of commencement and completion of the well* or wells* July 1964

7. The location, type, size and depth of well or wells contemplated E. Rattlesnake on 30th Street, Churn Drilled with 49#, 12" Casing

8. The probable or estimated depth of the water table or artesian aquifier 60 Feet

9. Name, address and license number of the driller engaged Glenn Camp, 705 Alder Street, Missoula, Montana, License No. 7

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



NW ¼ Sec. 14 T. 13N R. 19W

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator [illegible]
MISSOULA DIVISION MANAGER

Date July 13, 1964

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

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

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

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

38313

223909

I received and filed this Instrument for record on the 15 day of July 1964 at 9:50 o'clock A.M. permanent files of Missoula County, State of Montana

Witness my hand

Veronica B. Curtis, County Recorder

By ..... Deputy

Fee $ 2.00 Paid

GW 2 ①

Approved Stock Form—State Publishing Co., Helena, Montana—4047.

NUMBER (13)

File No. .....

T 13N R 19W 14

DUPLICATE

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
SEP 30 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level.....)

0 to 17' Boulders, gravel & clay
17' to 19' small gravel
19' to 31' Boulders & gravel
31' to 32' boulder, gravel & water
32' to 47' Clay & gravel
47' to 50' Gravel & water
50' to 55' Clay & gravel
55' to 78' Gravel & water
78' to 98' Gravel & clay
98' to 113' Clay, gravel & water
113' to 125' Gravel & water
125' to 127' Clay & gravel

Owner Montana Power Address Well up the Rattlesnake Corner of 30th & Drayton, Missoula

Driller Glenn Camp 795 Alder Address Missoula, Montana

Date of Notice of Appropriation of Groundwater.....

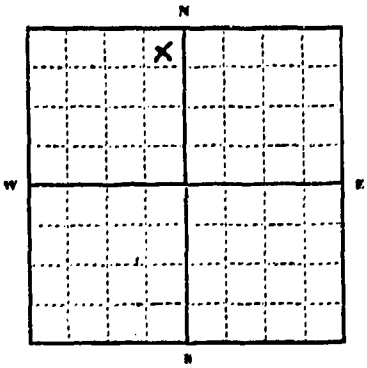
Date well started June 13, 1964 Date Completed July 8, 1964

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

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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
12"	12" I.D. 53.56 # to 20	3' above G.L. to	130'-1"	Mills knife 6 holes to circle Circles 6" apart	70' 113'	78' 125'



NW¼ Sec. 14 T. 13N R. 19W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 25' from G.L. feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level 85 feet at 800 gal. per minute.

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

How Tested Test Pump Length of Test 7 hours

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

Show exact depth of bottom.

THE MONTANA POWER CO.
By W. J. Tell Jr.
Vice President
40 E. Broadway
Butte, Montana
APPROPRIATOR

License # 7
Driller's License Number

Glenn Camp
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.

38504

227011

I received and filed this Instrument for record on the 25 day of Sept. 19 64 at 8:46 o'clock AM., permanent files of Missoula County, State of Montana

Witness my hand:

Frances A. Crouse, County Recorder

By S. Billings, Deputy

Fee $ 2.00 Paid

GW

File No.

DUPLICATE

Location?

RECEIVED AUG 6 1964 STATE ENGINEER

Approved Stock Form—State Publishing Co., Helena, Montana—42234 14

T 13 N R 19 W

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

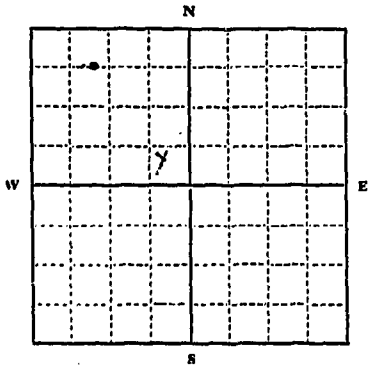
RECEIVED JUN 18 1964 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Mr & Mrs Guy Mooney, of 1203 Dickinson Pl
(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:



SE 1/4 NW 1/4 Sec. 14 T. 13 R. 19

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

2. The beneficial use on which the claim is based domestic 1/4 acre garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 3-21-51

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 20 gals/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 1/4 acre Lots 25 & 26 Block 28 Park Addition

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 3-3-51 to 3-21-51

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 67' deep; 6" ID hole 17 ft of casing

10. The estimated amount of groundwater withdrawn each year 200 gal/day

11. The log of formations encountered in the drilling of each well if available mostly gravel, some rock — no trouble

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 well drilled by R Russell Mowbray 1518 S 14th St W license 152

Signature of Owner Guy S. Mooney

Date June 15, 1964

late-forgotten bend of Gal — death of Mr Mooney's Mother

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.

38198

114

222707

I received and filed this Instrument for record on the 15 day of June 1964 at 3:40 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:

Vergmae R. Crouse, County Recorder

By Elena J. Franson, Deputy

Fee $ 2.00 Paid

GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Missoula 14

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA WATER RESOURCES BOARD
RECEIVED
MAY 27 1971

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 BANEVIEW PARK DEVELOPMENT

Address Missoula,
Montana 59801

Date well started May 20, 1971

completed May 21, 1971

For Administrator's Use
File 303003
May 25, 1971
1:00 PM
GW 1

Type of well Drilled
(Dug, driven, bored or drilled)

Equipment used Churn Drill
(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☒* Garden/Lawn ☐

*Describe Park Development

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"I.D.	6"I.D. 19 lb per ft.	1'6" above g.l.	40'6"		none	

N
W E

Static water level 19 ft.*
Pumping water level 33 ft.*
at 90 gallons per minute,
measured ½ minutes after pumping began.
*Measured from ground level.
Well developed by compressor & pump 3 - 1 hours.
Power Elec. Pump 5 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

Near border between
NE ¼ NW ¼ Sec. 14
T. 13 N (S) R. 19 E (W)

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

Driller's Signature Philip A. Bakke

Driller's Address Camp Well Drilling & Pump Supply
1522 S. 14th W., Missoula, Montana 59801

LICENSE NO. 7

DRILLER'S LOG

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.

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	19	Boulders & Brown Clay
19	40'6"	Gravel & Water & Boulders

40'6" Show exact depth of bottom

48530

2137 303003

I received and filed this instrument for record on the 25th day of May 1971 at 1:00 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand

Veramae R. Crouse, County Recorder

By M. M. Conaghan Deputy

Fee $20.00 Paid

GW

Approved Stock Form—State Publishing Co., Helena, Montana—42234 14

File No. ..... T 13N R 19 W

DUPLICATE County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

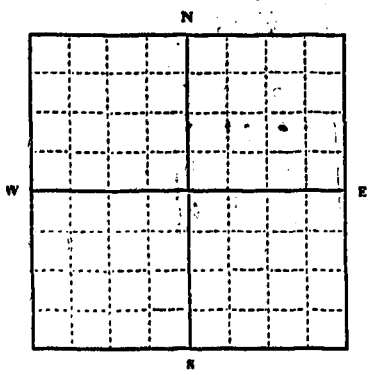
RECEIVED JAN 3 1963 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Roderick and Joan Prezeau, of 1316 Murray St. 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, 1962, as follows:



NE ¼ Sec. 14 T. 13N R. 19W

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Dec. 1, 1961 Continuous use since completion of well

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 14 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 for domestic and lawn use site is 90 x 120 ft. 1080 sq. ft.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal electric submerged pump located 45 ft. from side line and 25 ft. from rear property line

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Dec. 1, 1961

8. The depth of water table 45 ft. from surface

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 7 inch black steel water casing 65 ft. deep water enters bottom of casing

10. The estimated amount of groundwater withdrawn each year 146,000 gallons a year

11. The log of formations encountered in the drilling of each well if available log formation 0-1 ft. top soil 1-12 ft. gravel and boulders 12-28 ft. gravel and boulders embedded in clay 28-30 ft. loose gravel and boulders 30-48 ft. loose gravel and boulders 48-52 ft. loose gravel and water 52-65 ft. loose boulders and 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 Well drilled and installed by Liberty Drilling and Pump Co. owner and president William F. Osborne

Signature of Owner Roderick Prezeau Joan Prezeau

Date December 31, 1963

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

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

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

20449

1330

7

copy

I received and filed this instrument for record on the 2 day of Jan 1964 at 8:12 o'clock a M., in record book 1066 of Missoula County, State of Montana

Witness my hand

MARTIN E. BEHNER County Recorder

By Ethel Lane Deputy

Fee $2 Paid

GW

Approved Stock Form—State Publishing Co., Helena, Montana—42234

14

File No. Park 19 to 24 (n SE¼SW¼, Plat F, Sec. 14 T 13 N R 19 W 17

DUPLICATE

County Missoula

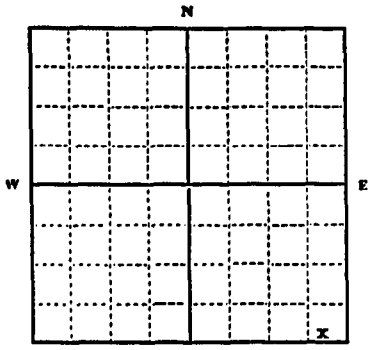
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED JAN 3 1964 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Russel G. Schreiber (Name of Appropriator), of 1800 Wylie (Address) Missoula (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Park - Plat F 19 to 24, Twp. 17 in SE ¼ SW¼ Sec. 14 T. 13 R. 19

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

2. The beneficial use on which the claim is based Household and irrigation purposes

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Approx 1951, used continously since then

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 680 gals. 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
5 lots- landscaped lawns - Russel G. Schreiber

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric pump located on north side and attached to dwelling

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Approx. 1951

8. The depth of water table 28 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 Centrifigal type pump with 3/4 HP electric motor, well is 83 feet deep, with 55 feet of water

10. The estimated amount of groundwater withdrawn each year Not known

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 Book 162 Page 528 of Deed Record Book Missoula County

Signature of Owner Russel G. Schreiber

Date Dec. 26, 1963

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

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

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

19905

646 215056

Copy

I received and filed the instrument for record on the 30 day of Dec 1968 at 2:18 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. BEHNER, County Recorder

By Martin S. Behner Deputy

Fee $ 2.00 Paid

Helena Independent Record

File No.....

T. 13 N R. 19 W 14

DUPLICATE

County.....

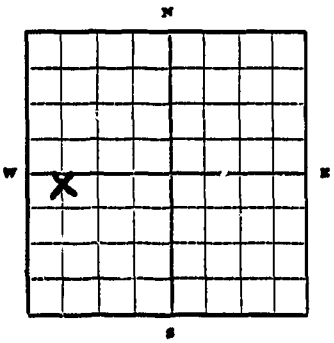
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 13 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Wayne P. Van Meter (Name of Appropriator), of 2224½ Brayton (Address), Missoula (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW ¼ SE Sec. 14 T 13N R 19W

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

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

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 gal/min

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof 1.0 acre - irrigation of assorted trees, shrubs, lawn for private use.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal fractional horsepower electric motor, centrifugal pump and pressure system (120 gal storage).

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 20 ft below 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 6" diam casing, 80 ft deep.

10. The estimated amount of groundwater withdrawn each year 90,000 gal

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 Wayne P Van Meter

Date Jan 3, 1964

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

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

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

31413

1343 215930

copy

I received and filed the instrument for record on the 3 day of Jan 1964 at 1:32 o'clock P.M., permanent filing of Missoula County, State of Montana

Witness my hand:

MARTIN G. MINER, County Recorder

By Ethel Lane Deputy

Fee $2.00 Paid

GW

Approved Stock Form—State Publishing Co., Helena, Montana—42234

14

File No.

T. 13 N R. 19 W

DUPLICATE

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 23 1964
STATE ENGINEER

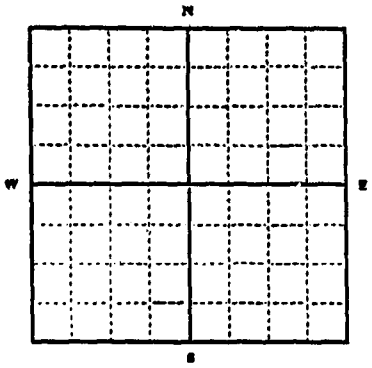
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, RONALD L. WILKINSON (Name of Appropriator), of 710 CITY DR (Address) MISSOULA (Town)

County of MISSOULA State of MONTANA

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



SW¼SW¼ Sec. 14 T. 13 R. 19

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 15-20 YRS CONSTANT USE

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 gal. PER MIN.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof NO IRRIGATION

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 15-20 YRS ago

8. The depth of water table 6' 0"

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" CASING - WELL Depth aprox 40 FT

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

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 The well NEAR the BANK of RATTLESNAKE CREEK - GUARANTEED WATER Supply

Signature of Owner R. L. Wilkinson

Date JAN. 7 - 64

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

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

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

33756

216501

Copy

I received and filed this instrument for record on the 6 day of January 1974 at 1:34 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. BEHNER County Recorder

By Martin S. Behner Deputy

Fee $ 3.00 Paid

Approved Stock Form—State Publishing Co., Helena, Montana—42234

File No.

T. 13 N R. 19 W

County Missoula

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED JAN 3 1964 STATE ENGINEER

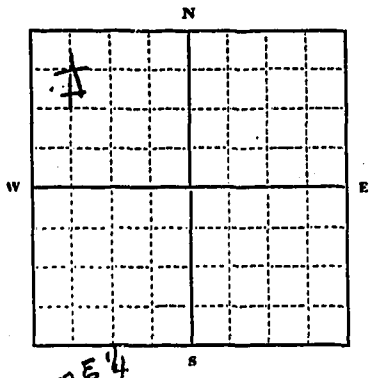
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. C. F. Zuelke & Mary Alice Zuelke, of R#4 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, 1962, as follows:



NE¼ NE¼ Sec. 14 T. 13 R. 19

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 10 years, every day

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Spring - Location of spring on farm

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Spring just piped 6 Centuries - 1953

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 Not applicable.

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

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 known

Signature of Owner Celia Zuelke

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.

20215

1095

215570

Copy

I received and filed this instrument for record on the 31 day of Dec 19 68 at 4:50 o'clock P M., permanent files of Missoula County, State of Montana
Witness my hand:
County Recorder
By Ethel Larson Deputy
Fee $ 2.00 Paid

4—Helena Independent Record

File No.

DUPLICATE

T 13N R 19W

County Missoula

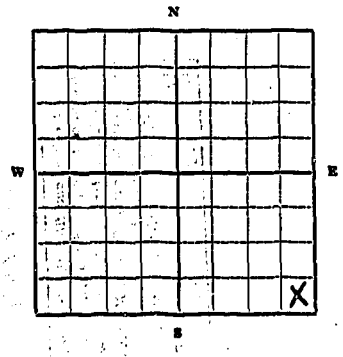
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUN 28 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. DAVID W. CHASE, of RT 4, W. GREENOUGH DRIVE, 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, 1962, as follows:



SE ¼ SE¼ Sec 15 T 13N R 19 W

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1951--CONTINUAL DAILY USAGE.

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

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 Jet pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1951

8. The depth of water table ~~Water Strata table~~ 52' to 56' (Static water level 35')

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"I.D. Iron pipe Drilled to 90'

10. The estimated amount of groundwater withdrawn each year For domestic use

11. The log of formations encountered in the drilling of each well if available 0 to 52' Clay, gravel & boulders, 52' to 56' Broken rock & water, 56' to 90' Solid rock, no water
Casing perforated at 52' to 56' (Tested at 30 G.P.M.)

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
Does not apply

Signature of Owner David W. Chase

Date 6-26-63

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.

4831

#202

207797

I received and filed this instrument for record on the 27th day of June 1963 at 12:55 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNDR, County Recorder
By Verna Crane Deputy
Fee $ 2.00 Paid

Approved Stock Form—State Publishing Co., Helena, Montana—38496 15

File No.....

T. 13N R. 19W

DUPLICATE

County Missoula

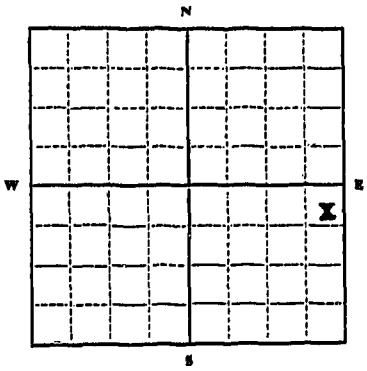
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED FEB 17 1962 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. The Montana Power Company (Name of Appropriator), of 40 East Broadway (Address) Butte (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE¼SE¼ Sec. 15 T13N R. 19W

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been May 1938, 24 hrs. per day for each year since 1938

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 300 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 Drilling started July 9, 1937, Well completed August 24, 1937

8. The depth of water table 47'

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 10" I.D. steel - 70' deep

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

11. The log of formations encountered in the drilling of each well if available 0' to 70' clay, gravel boulders, solid rock in bottom of well

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

(CORPORATE SEAL)
ATTEST: [signature]
Its Secretary

THE MONTANA POWER COMPANY
Signature of Owner By [signature]
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.

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.

268

Copy

192062

I received and filed this instrument for record on the 16 day of April 1962 at 8:45 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BELINER, County Recorder
By Eleanor J. Maurer Deputy
Fee $ 2.00 Paid

t—Helena Independent Record

File No.....

T. 13 N R. 19 W

DUPLICATE

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

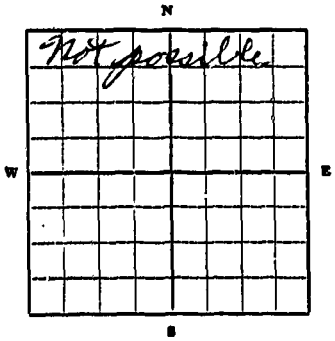
RECEIVED
DEC 30 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. William H. Randolph Jr., of 1410 Worden Ave. 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, 1962, as follows:



NE¼ Sec. 15 T. 13 R. 19

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

2. The beneficial use on which the claim is based Stock water and irrigation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been The earliest beneficial use was in April 1928. Continuous use from April to Nov. of each year.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) I have no way of measuring the water.

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 The amount of ground irrigated is small. N.W. ¼ Sec. 15 T. 13 R. 19. William H. Randolph Jr.

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 Started construction about March 1, 1928, and completed construction about April 15, 1928

8. The depth of water table This is a spring not a well.

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 I dug an open ditch in the hill about 20 feet long.

10. The estimated amount of groundwater withdrawn each year I wouldn't know

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

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 I don't know of any other information.

Signature of Owner William H. Randolph Jr.

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.

15246

144 215152

Filed for record this instrument for
record on the 30 day of Dec 19 0
at 1:22 o'clock P M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN E. BEHNKEN, County Recorder
By Martin E. Behnken Deputy
Fee $ P.U.D. Paid

G —Helena Independent Record

14

File No.....

T 13N R 19W

DUPLICATE

County Missoula

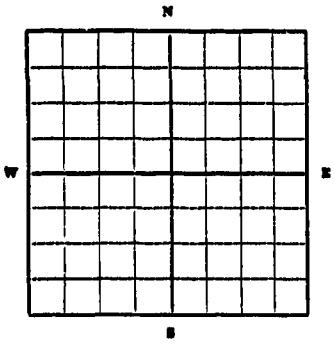
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 6 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Stockner, Maurice F. & Phyllis C., of Route #4 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, 1962, as follows:



.....¼..... Sec..... T..... R.....

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

2. The beneficial use on which the claim is based .....
.....a well for drinking and irrigating purposes.....

3. Date or approximate date of earliest beneficial use; and how continuous the use has been .....July 1951 and continuous since.....

4. The amount of groundwater claimed (in miner's inches or gallons per minute) .....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 .....lots 13 thru 26 inclusive of block 27
.....Park Addition to Missoula, Montana.....

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal .....
.....Electric Pump - (on lot 20 of block 27)
Park Addition to Missoula, Montana

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater .....1951.....

8. The depth of water table .....Unknown.....

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 .Approximately 65 feet deep 6" casing.....

10. The estimated amount of groundwater withdrawn each year .....not known.....

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 Maurice F. Stockner
Phyllis C. Stockner

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.

7937

1358

213629

Copy

Filed and filed this instrument for
record this 2 day of Dec. 1963
11:20 o'clock A.M., permanent files
Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By Martha [illegible] Deputy
Fee $ 2.00 Paid

G

Approved Stock Form—State Publishing Co., Helena, Montana—42234

C14

File No. .....

T. 13 N 19 W

DUPLICATE

County .....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963
STATE ENGINEER

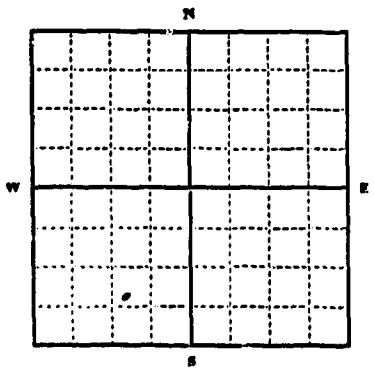
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. KENNEDY A. WANNER, of RR 1 MISSOULA, MONTANA
(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:



SE ¼ SW ¼ Sec. 14 T. 13 R. 19W

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

2. The beneficial use on which the claim is based HOUSEHOLD AND IRRIGATION

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1949 - CONTINUOUS TO NOW

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 GALLONS / 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 APPROX. 1 ACRE K. A. WANNER
Lots 1, 2, 3, 4, 5, 6 BLK 45 } PARK ADDN.
4, 5, 6 " 28
60X90 VACATED PARK AVE

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal PUMP - LOCATED ON VACATED PARK AVE.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1949

8. The depth of water table 40 feet (VARIES)

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
JET PUMP - 6" CASING - 65' WELL

10. The estimated amount of groundwater withdrawn each year 6 to 7 HUNDRED THOUSAND 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 Kennedy A. Wanner
K. A. WANNER

Date Dec 31, 1963

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

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

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

20237

#17

I received and filed this instrument for record on the 21 day of Dec 1967 at 5 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:

Clerk & Recorder

By Mata S Deputy

Fee $ 2.00 Paid

Helena Independent Record

15

File No.....

T 13 N. R 19 W.

DUPLICATE

County Missoula

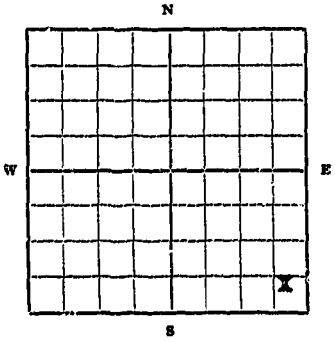
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 29 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Mrs. P. J. Trayner, of W. Greenough Drive, 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, 1962, as follows:



S.E. ¼ 15 Sec. T13N. R.19W.

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

2. The beneficial use on which the claim is based
Water for domestic use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been June 1949 to 1963

4. The amount of groundwater claimed (in miner's inches or gallons per minute) approx. 6 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 Lawn sprinkling only

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
1 H. P., single stage shallow well
Jet pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater June, 1949

8. The depth of water table 37' from surface

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 90' deep, drilled with churn drill
cased with 85' of 4" O.D., 11# per. ft. steel well casing

10. The estimated amount of groundwater withdrawn each year 275,000 Gals.

11. The log of formations encountered in the drilling of each well if available
Log 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 Mrs P. J. Trayner
Julia C. Trayner

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.

6676

305

212329

I received and filed this instrument for record on the 25 day of Oct 1963 at 2:45 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder
By [signature] Deputy
Fee $ 2.00 Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
NOV 29 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Missoula 16

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Howard N. Horton

Address 824 Stoddard
Missoula, Montana 59801

Date well started May 11, 1972
completed May 12, 1972

Type of well Drilled (Dug, driven, bored or drilled)

Equipment used Churn Drill (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

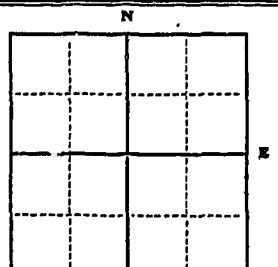
*Describe

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

For Administrator's Use
File #9375, 3250.54
Nov. 22, 1972 10:30 a.m.
GW 1

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6" I.D.	6" I.D. 17 lb per ft. g.l.	2'1" above	92'		none	



Static water level 45 ft.*
Pumping water level 55 ft.*
at 40 gallons per minute,
measured ½ minutes after pumping began.
*Measured from ground level.
Well developed by compressor
for 2½ hours.
Power Does not pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

Lot 6 Blk 18 School Addn
¼ ¼ Sec. 16
T. 13 N R. 19 E
S W
of 5 acre tracts

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

Driller's Signature Glenn Camp
CAMP WELL DRILLING & PUMP SUPPLY
Driller's Address 1522 S. 14th W. Missoula, Montana 59801

LICENSE NO. 7

DRILLER'S LOG

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.

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	2	Brown Topsoil & Gravel
2	9	Tan Clay & Gravel
9	13	Cobbelstones, Clay and Gravel
13	75	Clay and Gravel
75	77	Gravel & Sand & Water
77	84	Sandy Clay and Gravel
84	92	Gravel Sand & Water

92' Show exact depth of bottom

51,923

#2375

325054

I received and filed this instrument for record on the 27 day of May 1974 at 10:36 o'clock A.M. permanent files of Missoula County, State of Montana

Witness my hand.

Veronica A. Crouse, County Recorder

By _____, Deputy

Fee $ 3.00 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4564

File No.....

T. 13N R. 19W 16

DUPLICATE

County Missoula

MONTANA WATER RESOURCES BOARD
RECEIVED
MAR 10 1969

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level.....)

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

CITY OF MISSOULA CEMETERY WELL

0-12	Cobbelstones & clay
12-25	Gravel & clay
25-30	Clay & Sand
30-40	Clay
40-52	Sand & Clay
52-80	Sand, Clay & Water
80-88	Silt, sand & water
88-99	Gravel & water
99-106	Clay & Gravel
106-126	Clay
126-129	Gravel, Sand & Water
129-152	Gravel & water

Show exact depth of bottom.

Owner CITY OF MISSOULA Address Cemetery Otis St., Missoula

Driller Glenn Camp Address 1522 S. 14th W. Missoula, Montana

Date of Notice of appropriation of groundwater.....

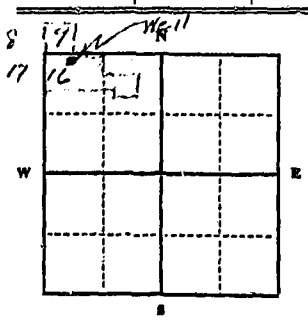
Date well started Dec. 20, 1968 Date completed Jan 22, 1969

Type of well Drilled (Dug, driven, bored or drilled) Equipment used Churn Drill (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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
12" I.D.	12" I.D. 44 lb per ft.	2' above G.L.	152'	Mills Knife 5"x 3/8"	94' 8 holes round - 1' apart Total - 40 holes	99' to the
					138' 8 holes to the round - 1' apart Total - 80 holes	148'



Static Water Level for non-flowing well 48 feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level 60 feet (Drawdown = 15')

at 800 gal. per minute.

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

How Tested Air Compressor

Length of Test 6 hours

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

NW¼ Sec. 16 T. 13N R. 19W

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

.....(Continue on reverse side)

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

SW¼ SW¼ SW¼ Sec. 9, T13N, R19W, and Blocks 33, 34, 36, 37, 48 & 49 School Addition 5 Acre Tracts

Approx. 35 Acres in all

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.

License # 7

Driller's License Number

Glenn Camp

Driller's Signature. Glenn Camp

45,047

1861 279346

I received and filed this instrument for record on the 6th day of March 1969 at 4:00 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:

Veramos R. Crouse, County Recorder

By M. McCarraghey Deputy

Fee $ No Fee Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—41933

File No.....

T. 13 N R 19 W 16

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
SEP 2 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level 3100)

25' Boulders, sand gravel & clay

15' clay, & clay

15' sand, gravel, trace of water Missoula

111

30' course gravel, fine sand with clay & some water

7' fine sand & water

1' blue clay

6' clay, course gravel & water

19' course gravel, sand & water

5' clay, course gravel & some water

123

Owner White Pine Sash Co. Address Missoula

Driller Kane Water Well Drilling Address St. Regis

Date of Notice of Appropriation of Groundwater 7/20/64

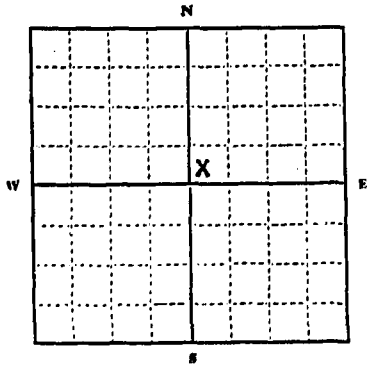
Date well started 8/3/64 Date Completed 8/13/64

Type of well drilled (dug, driven, bored or drilled) Equipment Used churn (Churn, drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Other ☑ Boiler Feed 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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
11 8" id	8"id	0	118	¼ x 5	100	116



NE ¼ Sec. 16 T. 13N R. 19W

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 does not apply

Pumping Water Level 80 feet at 150 gal. per minute.

Discharge in gal. per min. of flowing well does not apply

How Tested air-compressor Length of Test 1½ 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)

23
Driller's License Number

Eugene F. Kane
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.

38426

1438 825808

I received and filed this Instrument for record on the 27 day of Aug 1981 at 11:30 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

Veronica R. Crouser County Recorder

By Elsie J. Haun, Deputy

Fee $ 8.00 Paid

4—Helena Independent Record

16

File No.....

T. 13 N R. 19 W

DUPLICATE

County Missoula

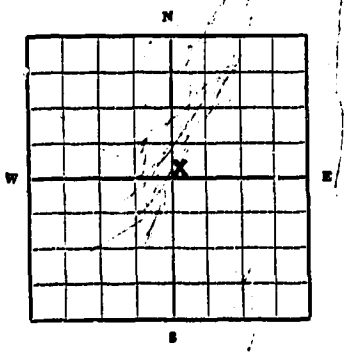
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 26 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. MISSOULA WHITE PINE SASH CO., of Scott & Stoddard 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, 1962, as follows:



NE ¼ Sec. 16 T. 13N R. 19W

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

2. The beneficial use on which the claim is based sanitation & drinking water, boiler feed water, sawmill operation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1924 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1300 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 not applicable.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 2 deep well pumps - 1 at factory - 1 at sawmill.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Factory well - 1924 Sawmill Well 1947
Block 28 Block 27

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 drilled factory well 4" casing 106' deep. Drilled sawmill well 12" casing 110' deep.

10. The estimated amount of groundwater withdrawn each year 145,000,000 gals.

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

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

MISSOULA WHITE PINE SASH CO.

Signature of Owner By, R. F. Bush, Treasurer

Date 12/16/63

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.

12343

523

214774

I received and filed this instrument for record on the 23 day of Dec 1963 at 3:50 o'clock P M., permanent files of Missoula County, State of Montana.

Witness my hand:

MARTIN S. BEHNER, County Recorder

By Opal Lane Deputy

Fee $ 2.00 Paid

GW 2

Approved Duck Form—State Publishing Co., Helena, Montana—42329

File No.

DUPLICATE

MONTANA WATER RESOURCES BOAR
RECEIVED
JUN 11 1968

T. 13N R. 19W

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level)

27 small boulders, gravel and clay

7' clay and cobble-gravel

18' clay, sand and gravel

50 water, gravel and sand

2' water, and gravel mixed with brown clay

28' water sand and gravel

131 Show exact depth of bottom.

Owner Missoula White Pine Sash Address Missoula

Driller Kane Water Well Drilling Address St. Regis

Date of Notice of appropriation of groundwater 9/67

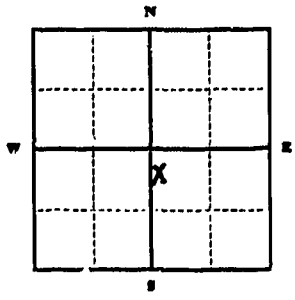
Date well started 10/4/67 Date completed 10/31/67

Type of well drilled (Dug, Driven, bored or drilled) Equipment used churn (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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
	16" Std.	0	131'	4 x 3'	98'	125'



SE ¼ Sec. 16 T. 13N R. 19W

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

Static Water Level for non-flowing well 54' feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 57 feet at 1500 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested PUMP

Length of Test 6 HRS

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

(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).

Standby FIRE PUMP

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.

23
Driller's License Number

Driller's Signature

44219