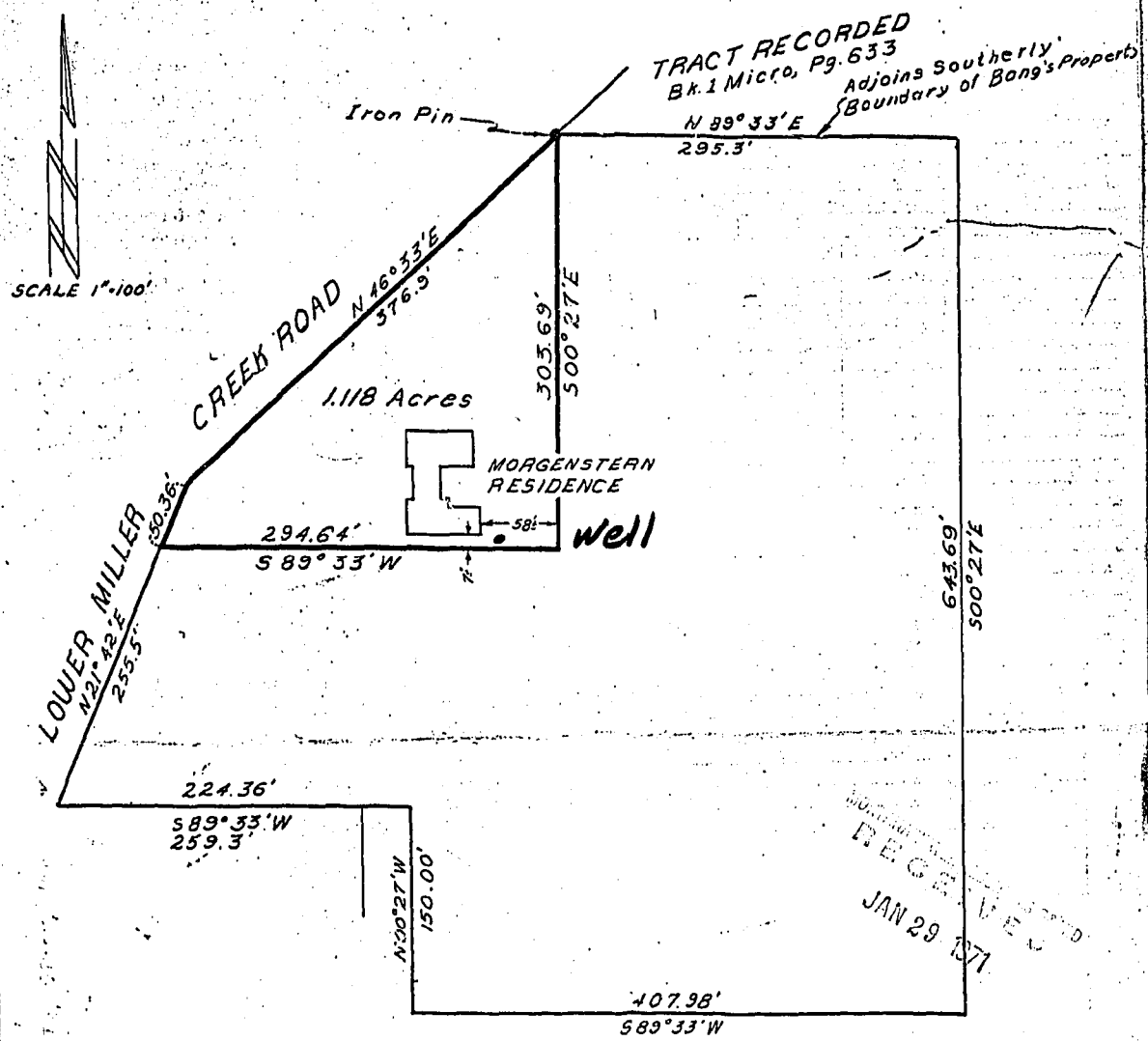
A SURVEY & LEGAL DESCRIPTION FOR MORTGAGE PURPOSES OF A PORTION OF THAT GROUND OWNED BY MORGENSTERN IN THE $S\frac{1}{2}$ $SE\frac{1}{4}$ SECTION 1, T. 12 N., R. 20 W., PRINCIPAL MERIDIAN MONTANA, PREPARED FOR H. L. MORGENSTERN IN OCTOBER 1970.



LEGAL DESCRIPTION:

A parcel located in the $S\frac{1}{2}$ $SE\frac{1}{4}$ Section 1, T.12N., R.20W., Principal Meridian Montana beginning at the southwesterly corner of that property owned by Bangs and of record in Bk. 1 of Micro, Page 633; thence S00°27'E, 303.69 feet; thence S89°33'W, 294.64 feet to a point on the easterly R/W of Lower Miller Creek Road; thence N21°42'E, 50.36 feet; along the easterly limit of Lower Miller Creek Road; thence N46°33'E, 376.9 feet along the easterly limit of Lower Miller Creek Road to the point of beginning; containing 1.118 acres more or less, being in accordance to this attached exhibit.

I certify that the information shown hereon is true and correct.

MONTANA
GORDON E. SORENSON
2345 ES.
REGISTERED
PROF. ENGR. & LAND SURVEYOR

Gordon E. Sorenson, P.E.
Montana Registration No. 2345ES

SORENSON & COMPANY
P. O. BOX 530
MISSOULA, MONTANA 59801

GW

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

File No.....

T. 12 N R. 20 W

DUPLICATE

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 2 1964
STATE ENGINEER

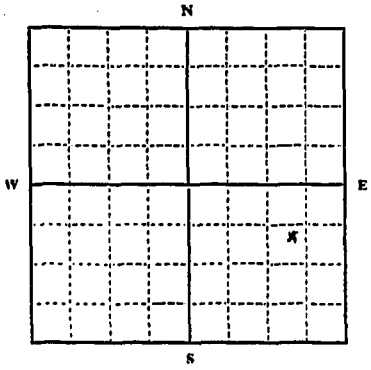
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. HERBERT SCHWEITZ (Name of Appropriator), of Route 3 (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:



NE ¼ S E Sec. 1 T. 12 R. 20

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 House use garden, Lawn, berry patch.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Oct. 25, 1955, continuous use

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 approximately 1 acre Lawn, garden, berry patch. Herbert Schweitz

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater approx. date Oct. 10, 1955 – (completion) Oct. 25, 1955

8. The depth of water table 68 feet (Sixty eight 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 5" Casing 128 ft. deep

10. The estimated amount of groundwater withdrawn each year 1¼ million gallons

11. The log of formations encountered in the drilling of each well if available Not available. Information may be obtained from Liberty Drilling Co. Polo, Montana.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record I don't know of any.

Signature of Owner Herbert Schweitz

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.

17648

855 245-323

I received and filed this instrument for record on the 2 day of Dec 19 67
at 9:00 o'clock A.M. permanent files
of Missoula County, State of Montana
Witness my hand:
MARVIN S. BEHNER, County Recorder
By [illegible] Deputy
Fee $ 7.50 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4232 3

File No.....

T. 12 R. 20

DUPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED
APR 16 1969

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.....)

GL top soil
1'
1' tan clay, sand
71' & gravel
71' sand, gravel &
79' 6" water

Show exact depth of bottom.

Owner SHERMAN J. PREECE Address 3329 DARRELL LANE MISSOULA, MONTANA

Driller KEN WILLIAMS WELL DR. Address 1558 So.5th.W. MISSOULA, MONTANA

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

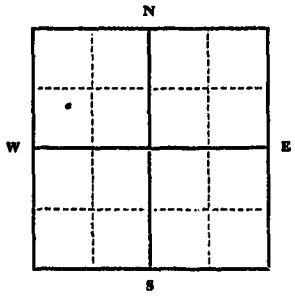
Date well started APRIL 6,1969 Date completed APRIL 9,1969

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)
6"ID	6-5/8" OD 17 lbs. ½" side-wall	ground level	79'6"			



.....¼..... Sec. ..... T. 12 R. 20

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

Static Water Level for non-flowing well 63 feet.

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

Pumping Water Level 76 feet at 20 gal. per minute.

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

How Tested bail & sub test pump

Length of Test 5 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.

151
Driller's License Number

Kenneth McWilliams
Driller's Signature

45,147

1871 280319

I received and filed this Instrument for record on the 14th day of April 1969 at 4:00 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:

Veranne R. Crouse, County Recorder

By M. M. Cunningham Deputy

Fee $2.00 Paid Cash

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
MAR 17 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Missoula

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 A. C. Stetson
Address 4706 Orchard Ave. Route 2
Missoula, Montana

For Administrator's Use
File #2242, 313850
March 13, 1972 2:20 p.m.
GW 1

Date well started Dec. 26, 1952
completed Dec. 30, 1952

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 ☐

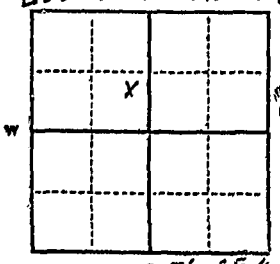
*Describe

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)
4"	Standard Class 40	10'	52'	None - Open Hole		

Lot 31 N South Side Homes



E½ SE¼

SE ¼ NE ¼ Sec. 1
T. 12 N/S R. 20 E/W

Static water level 8' ft.*
Pumping water level 15' ft.*
at Min. 400 gallons per minute,
measured minutes after pumping began. Drill stem test
*Measured from ground level.
Well developed by
for hours.
Power Pump 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 Arlen L. Rummer
Driller's Address Highway 93 South
Missoula, Montana 59801 LICENSE NO. None Required

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	10	Dug Well
10	22	Sand and Gravel
22	29	Blue Clay
29	52	Sand and Gravel
52		Clayn
		Water rises to 8'

52' Show exact depth of bottom

50,058

#2247

#313850

I received and filed this instrument for record on the 13 day of Mar 1972 at 2:20 o clock P M permanent files of Missoula County State of Montana

Witness my hand

Vernon R. Crouse County Recorder

By Marie Murrell Deputy

Fee $2.00 ck Paid

GW

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

File No.

T. 12 N R. 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED JAN 3 1964 STATE ENGINEER

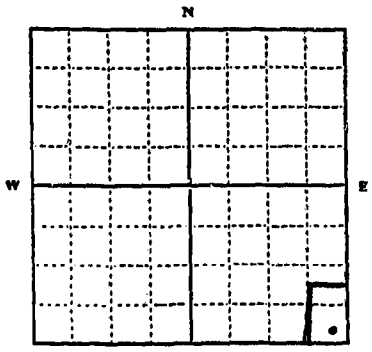
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, Henry Stroh (Name of Appropriator), of R+E #3 (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:



SE of SE ¼ Sec 1 T 12 R 20

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 Water Supply + irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Approximate 1890 Warranty Deed July 8, 1890

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 20 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 1/2 acre surrounding homesite owner - Henry Stroh

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater About ~~19~~ 1890

8. The depth of water table 90'

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 - 4" casing - 90'

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

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

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 Henry Stroh

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.

20366

7247

Copy

I received and filed the instrument of record on the 5th day of Dec. 1963 at 10:00 o'clock A.M. in permanent files of Mineral County, State of Montana

Witness my hand.

By Martin J. Bedrosk, Deputy

Fee $ ..... Paid

County Recorder

GW 2

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

File No.

STATE WATER CONSERVATION BOARD

SEP 21 1966

T. 12 R. 20

DUPLICATE

County Missoula

LOG

Billie McDermott
Butzerin McNulty
Coyle Morton
Darlinton Sullivan
Dickert

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)

location of well - Upper Miller Creek Road

0' to 40' Clay and Gravel

40' to 93' Sandy Clay and gravel (90' - little water)

93' to 107' Tight Gravel

107' to 112' Sand, gravel and water

Show exact depth of bottom.

Owner Dale Torgason Address 1204 Margaret, Missoula, Montana

Driller Glenn Camp, 705 Alder Address Missoula, Montana

Date of Notice of appropriation of groundwater

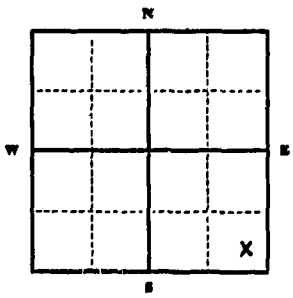
Date well started June 16, 1966 Date completed June 22, 1966

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 lb	ground level	112'			



SE 1/4 SE 1/4 Sec. 1 T. 12 R. 20

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

Static Water Level for non-flowing well 76 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 86 feet at 42 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Test Pump

Length of Test 1 hour

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.

License 27
Driller's License Number

Glenn Camp
Driller's Signature

41,427

165

254008

I received and filed this instrument for record on the 19 day of Sept 19 66 at 2:35 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Cigune, County Recorder

By [illegible] Deputy

Fee $2.00 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—32496

File No.....

DUPLICATE

So Wyman Elvin 3 Voes?

T. 12 N R. 20 W

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER RECORDS
OFFICE OF STATE ENGINEER

RECEIVED
SEP 14 1962
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.....)

0-1' Top soil
1-101' gravel sand clay
101'-115 sand water
115-120' sand gravel water

Owner Elvin S. [illegible] Address Rt. 3 Missoula

Driller John Farrell Address Arlee

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

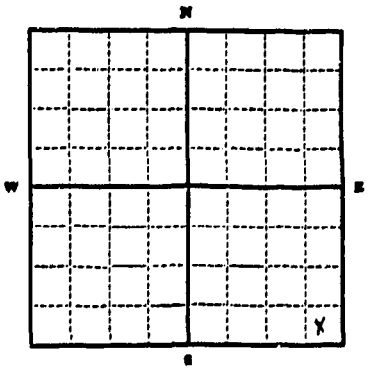
Date well started Aug. 9-1962 Date Completed Aug. 24-1962

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)
6"	5" 14 LB	0	120'			



SE ¼ SE ¼ Sec. 1 T. 12 R. 20

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

120'

Show exact depth of bottom.

Static Water Level for non-flowing Well 45 feet.

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

Pumping Water Level 115 feet at 10 gal. per minute.

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

How Tested Bailer Length of Test 3 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).....

14
Driller's License Number

John Farrell
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.

2101.

145

Copy

197155

I received and filed this instrument for record on the 10 day of Sept 1967 at 11:15 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder
By Elaine J. Mauer Deputy
Fee $ 2.00 Paid

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

File No.

T. 12 N R. 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED JAN 3 1964 STATE ENGINEER

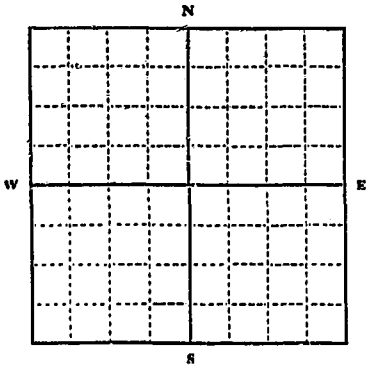
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Robert M. Yorton (Name of Appropriator), of R.T-3 (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:



¼ Sec. 1 T. 12 N R. 20 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 House Hold & Garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Oct. 1959 Constant Use

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 720 gal. p. hour. 12 gal 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 2.5 Acres - 1/4 in Garden Approx. 2 A. in Hay

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 1 Well at S.E. Corner of House - 720 Gal. P.H. Elect. Pump.

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

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 Deep Well, Pump 4" Casing 60' Depth

10. The estimated amount of groundwater withdrawn each year 500,000 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 None

Signature of Owner Robert M. Yorton

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.

20099

913 215447

I received and filed this instrument for record on the 4 day of Mar 1963 at 10 o'clock 1 M., permanent files of Missoula County, State of Montana.

Witness my hand:

MARTIN [illegible] FINDER, County Recorder

By Marie J. Behr Deputy

Fee $ 2.00 Paid

C 1—Helena Independent Record

File No.....

T. 12 N R. 20 W

DUPLICATE

County.....

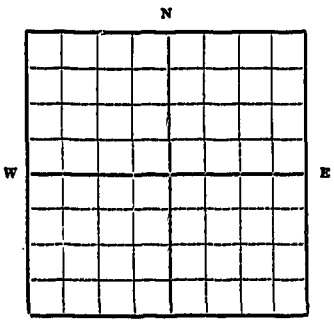
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. L.G. Zipperian, of Bitterroot Road, Rte. #3, 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:



Lot 1 less RWin Sec. 1
T.12 R 20.
.....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 is irrigation watering stock, domestic and other beneficial uses.

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Approximately 4,000,000 gallons per year.

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 40 acres, more or less; Lot 1, less R/W in Sec. 1 T12R20; L.G. Zipperian

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

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

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 Unknown

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

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 L. G. Zipperian

Date 12/28/62

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.

20261

1141

I received and filed this instrument for
record on the 7 day of Mar 19[illegible]
at 5:38 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand.

By Martin S. Cotter Recorder
Fee $ 7.00 Paid Deputy

ADDENDUM

Form: ☒ Declaration of Vested Groundwater Rights

☐ Notice of Completion of Groundwater Appropriation by Means of Well

Name of owner: John P. Zottnick

Corrected land description: ¼ E½, ¼ SE ¼ NE

Sec. 1 T 12N R 20W

Initials: CS

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

File No.

T. 12N R. 20W S. 1
12N 19W

County

DUPLICATE

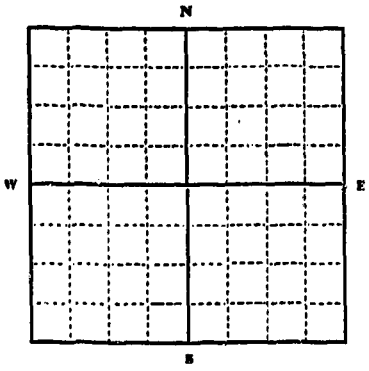
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. John P. Zottnick, of Cold Springs, Missoula, Mont
(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.

{North 120' Lot 45
South side Homes}

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 1/15/58

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 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
none

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Jacuzzi Pump 3/4 H.P.

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

8. The depth of water table Not available

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 5" casing, 14 lbs to feet total depth 136'-6"

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
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

Glenn Camp, Driller
705 Alder
Missoula, Mont
License # 7

Signature of Owner John P. Zottnick

Date Dec 29, 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.

20043

844

215-310

Copy

I received and filed this instrument for record on the 7 day of Dec 1963 at 9:09 o'clock A M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. SHINER, County Recorder
By [illegible] Deputy
Fee $ 5.00 Paid

RECEIVED
MAY 18 1959
STATE ENGINEER

T..... R..... 7

County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

X			

Owner J. L. Van Allen Address 223 West Alder

Driller Glenn Camp Address 705 Alder

Date Started March 6, 1959 Date Completed March 30, 1959

Location: Sec. 2 T. 12 R. 20 ¼ sec.

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

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

Industrial [ ] Drainage [ ] Other:

Casing: 1 ft. to 105 ft. Type Black iron Size 6"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. no to ft. Ft. to ft.

Type of screen or perforations

Static Water level, for non-flowing well: 60 feet.

Shut-in pressure, for flowing well: none lb./sq. in. on: (date)

Pumping water level 60 feet at 12 gal. per min.

How tested: Bailer

Length of test ½ hour

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

none

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	1'	top soil
1'	29'	gravel boulders and clay
29'	35'	boulders
35'	38'	gravel, clay, small boulders
38'	41'	boulders and clay
41'	50'	gravel, clay and cobble stones
50'	70'	clay and gravel, sand about 1½ gal. of water per min. at 70'
~~70'~~	~~78'~~	~~clay and gravel~~
78'	80'	broken soft red rock
80'	87'	small gravel and silt a little water
87'	103'	silt and sandy clay
103'	106'	water, gravel and sand

I hereby certify that this instrument was filed for record on the 11 day of May 1959 at 1:30 o'clock P M, and duly recorded in Volume ... of Official Records of Harris County, Texas.
WITNESS MY HAND AND SEAL OF OFFICE
By Dorothy Garrett Deputy
Fee $ 50 Field

#80

161069

Copy

GW 2 Revised 1969
13—3M—10/69

County Missoula

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 James + Carol Carme

Address RT. #3
Missoula, Montana

For Administrator's Use
File 292658
August 6, 1970
2:00 P.M.
GW 1

Date well started July 24, 1970

completed July 28, 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 ☐

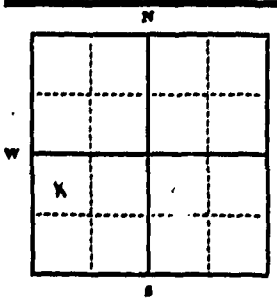
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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 unknown

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	15 lbs per ft.	0	98	3/16x5 3/8x1½	78	98



Static water level 71 ft.*
Pumping water level 90 ft.*
at 10 gallons per minute,
measured 240 minutes after pumping began.
*Measured from ground level.
Well developed by bailing & pumping for 5 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

NW ¼ SW ¼ Sec. 2
T. 12 N/S R. 20 E/W

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

Driller's Signature Charles Wolfe for Ravalli Drilling Co.

Driller's Address Box 27, Victor, Montana

LICENSE NO. 200

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	1	Topsoil
1	56	Sand, Gravel
56	74	Intermittent layers Sand, Gravel, Clay mix. Brown to purple in cole
74	77	Sand, Gravel Water bearing-10 gpm
77	88	Sand, Gravel, Clay mix
88	98	Bedrock, weather mate Water bearing 5gpm

98 Show exact depth of bottom

#2023

293658

I received and filed this instrument for record on the 16 day of Aug. 19 70 at 10:00 o'clock A.M., pursuant filed of Missoula County, State of Montana

Witness my hand

Vivian R. Orison, County Recorder

By [illegible], Deputy

Fee $2.00 Paid

3 GW 2 Revised 1969
13—3M—10/69

County Missoula

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 James + Carol Harmon

Address Rt. #3
Missoula, Montana

For Administrator's Use
File 92658
August 6, 1970
2:10 P.M.
GW 1

Date well started July 24, 1970
completed July 26, 1970

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

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

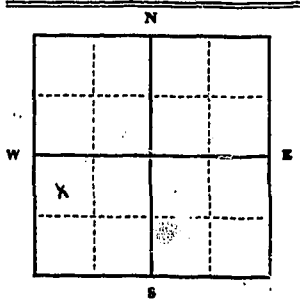
Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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 unknown ~~100~~ 37,000 gal

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	15 lbs per ft.	0	98	3/16x5 3/8x1¼	73	98



Static water level 71 ft.*
Pumping water level 90 ft.*
at 18 gallons per minute, measured 240 minutes after pumping began.
*Measured from ground level.
Well developed by bailing & pumping for 5 hours.
Power..... Pump..... HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

NW ¼ ¼ SW ¼ Sec. 2
T. 12 N (S) R. 20 E (W)

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

Driller's Signature Charles Wehle, Jr. Ravalli Drilling Co.

Driller's Address Box 27, Victor, Montana

LICENSE NO. 200

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	1	Topsoil
1	56	Sand, Gravel
56	74	Intermittent layers Sand, Gravel, Clay mi Brown to purple in col
74	77	Sand, Gravel Water bearing-10 gpm
77	83	Sand, Gravel, Clay mi
83	98	Bedrock, weather mate Water bearing 5gpm

98 Show exact depth of bottom

GW 4

File No.

DUPLICATE

Approved Stock Form—State Publishing Co., Helena, Montana—41234

T. 12N R. 20W

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

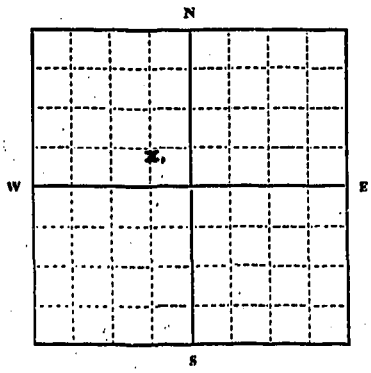
RECEIVED
JAN 3 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. KGVO Broadcasters, Inc., of Box 1405 132 West Front, 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:



E½NW ¼ Sec. 2 T12N R20W

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 at transmitter site

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1936; use has been continuous since well was drilled in that year

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 350 gallons a 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 water used to sprinkle lawn around transmitter which land is also owned by KGVO Broadcasters, Inc.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 1/4 h.p. pump; well is located 100 feet from transmitter

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater summer of 1936

8. The depth of water table Not known

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 See answer to question 6 above

10. The estimated amount of groundwater withdrawn each year 150,000 gallons

11. The log of formations encountered in the drilling of each well if available Not registered. Top soil is about two feet deep and then loose 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 No record kept

KGVO Broadcasters, Inc.
Signature of Owner by Dale G. Moore, President
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.

20063

97

215390

Copy

I received and filed this instrument for record on the 31 day of Dec 1963 at 12:16 o'clock A M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN SCHEMMER County Recorder

By Thos S Behmer Deputy

Fee $2.00 Paid

G1

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

File No.....

T. 12 N R. 20 W

DUPLICATE

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1963
STATE ENGINEER

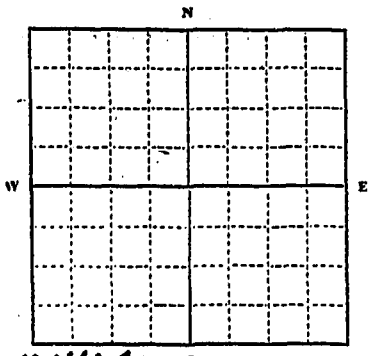
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Margaret & Harold O. Kohlhase (Name of Appropriator), of Rt. 3, P.O. Box 1133 (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:



NW¼ of SW¼ of Sec. 2 T 12N R. 20W

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 lawn, little irrigation and water for animals.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been August 1960 and used continuously since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) ten 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, garden, flower beds etc.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Submersible pump well approx. 25 feet from house

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started August 1959 Completed August 1960

8. The depth of water table About 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 Six inch cased well, drilled to 269 feet

10. The estimated amount of groundwater withdrawn each year 250,000 gallons

11. The log of formations encountered in the drilling of each well if available Not exact but much clay, red rock, glacial boulders

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 that I know of.

Signature of Owner Harold C Kohlhase

Date 12-28-63

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.

19913

684 215081

I received and filed this instrument for record on the 20 day of [illegible] 19 63 at 9:00 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:
MARVIN S. BEHNKEN, County Recorder
By [illegible] Deputy
Fee [illegible] Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—3931

File No.....

T. 12 N. R. 20 W.

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED OCT 15 1962 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 1' Top soil

1' to 38' Red clay

38' to 40' Sand, clay and gravel

40' to 45' Sand, gravel clay & boulders

45' to 52' Gravel & clay

52' to 53' Gravel, boulders and water

53' to 57' Clay, gravel and boulders

57' to 65' Clay & gravel

Owner Rudolph Frank Address South of Missoula

Driller Glenn Camp 705 Alder Address Missoula, Mont

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

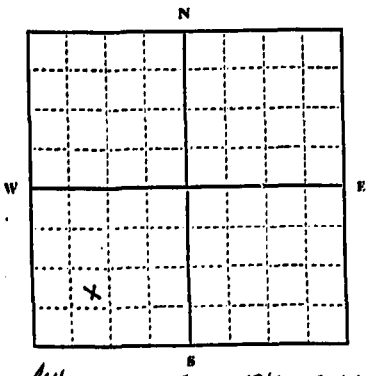
Date well started 10/3/62 Date Completed 10/6/62

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)
6"	6"I.D.	0 to 62'	55'-3"			
=6" =5"	5"liner	49'-6"	to 62'	5" liner set in 12'-6" bottom 38 holes		



SW ¼ Sec. 7 T. 12 N. R. 20 W.

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 35' from G.L. feet.

Shut-in Pressure for Flowing Well not known

Pumping Water Level 35 feet at 7½ gal. per minute.

Discharge in gal. per min. of flowing well 7½ gal.

How Tested Bailer Length of Test 2 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)

None

Licence # 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.

3603

#178

COPY

202659

I received and filed this instrument for record on the 27 day of Feb 1963 at 2:15 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. BEHNER, County Recorder

By Johanna Deller Deputy

Fee $3.00 Paid

Helena Independent Record

File No. .....

DUPLICATE

T. 12 N R 20 W.

County Missoula

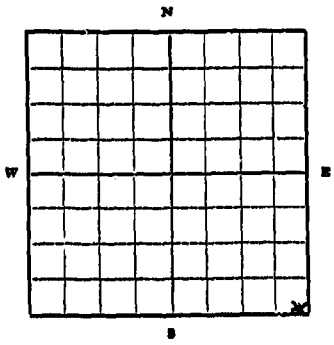
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 10 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Daniel O. Maloney (Name of Appropriator), of R.3 Miller Creek (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:



S E ¼ Sec. 2 T. 12 R. 20 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 domestic, irrigation, stock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1880 continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 25 miner's

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, stock

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1880

8. The depth of water table 20 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 dug well

10. The estimated amount of groundwater withdrawn each year 1000 gal a day

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

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 Daniel O. Maloney

Date Dec 9 - 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.

8279

3

213997

Copy

I received and filed this instrument for record on the 9 day of Dec 1969 at 3:25 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

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—42199

2

File No.....

T. 12 N R. 20 West

DUPLICATE

County Mineral

RECEIVED
DEC 20 1963
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater December 9-1963

Owner Daniel O. Maloney Address Route 3 Missoula

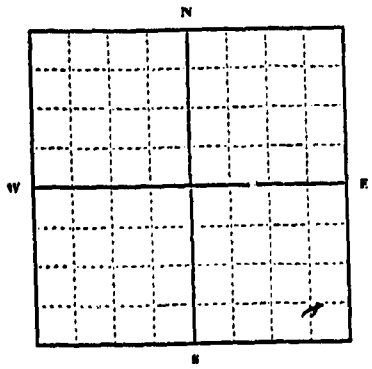
Contractor (if any) .....

Address of Contractor .....

Date Started..... Date Completed.....

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

Sump forty feet in diameter and ten feet in depth



SE¼ Sec. 2 T. 12 R. 20W

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

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. five months: One hundred miner's inches of water

Sprinkler System operating June 1958

Signature of Owner Daniel O. Maloney

Date December 19, 1963

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

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

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

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

10922

459 214536

Copy

I received and filed this instrument for record on the 12 day of Dec 1967 at 1:27 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

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4835, [illegible]

File No.....

T. 12N R. 20W

DUPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED
SEP 29 1969

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) Approx. 3142 ft.

Formations Log:

0 - 4 Clay and broken rock.
4 - 20 Dark gray clay.
20 - 38 Tan clay, sand and some small gravel mixed in.
38 - 39 Gravel imbedded in silty clay.
39 - 41 Small gravels mixed in silt.
41 - 42 Fine silty sand.
42 - 48 Gravel mixed in silty clay.
48 - 48½ Hard packed gravel with stringers of silt in alternate layers.
48½ - 49½ Fine silty gravel.
49½ - 50 Yellow to brown silty gravel.
50 - 53 Cemented gravel.
53 - 55 Fine silty sand.
55 - 56½ Sand and gravel.
56½ - 58 Fine silty sand.
58 - 64 Fine silty sand and gravel.
64 - 65 Silty sand and gravel.
65 - 66 Clay with some gravel mixed in.
66 - 71 Clay with fine sand and gravel mixed in.
71 - 72 Fine to coarse sand.
72 - 73 Silty sand.
73 - 74 Coarse sand and gravel.
74 - 75 Coarse sand.
75 - 78 Broken rock with some gravel mixed in.
78 - 79 Clay, sand and some gravel mixed in.
79 - 80 Coarse sand and gravel. Water.

Show exact depth of bottom. Bottom of well 80 ft.

Owner: Lewis F. Miller and Myrtle N. Miller Address: Missoula, Montana

Driller: Liberty Drilling Co. Address: Missoula, Montana

Date of Notice of appropriation of groundwater: None filed.

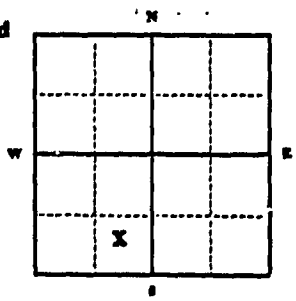
Date well started: 9/4/69 Date completed: 9/11/69

Type of well: Drilled (Dug, driven, bored or drilled) Equipment used: Cable tools (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 5/8" x ¼"	+2	80	NONE		



SE 1/4 SW Sec. 2 T. 12N R. 20W

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

Static Water Level for non-flowing well 12 feet.

Shut-in Pressure for Flowing Well Non-f.

Pumping Water Level 60 feet at 32 gal. per minute.

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

How Tested Air Lift Pump

Length of Test 16 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through open bottom of six inch casing. Note: Wells in this area can be depended upon to produce clear sand free water year after year as (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).

Approximately 1 acre.

Water rises in well 12 feet from surface.

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.

32
Driller's License Number

William E. Osborne
Driller's Signature.

45686

long as they are not overpumped, i.e., they should be pumped at rates not in excess of 60 to 70 percent of the tested capacity of the aquifer.

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—43642

File No. .....

STATE WATER CONSERVATION BOARD

T. 12N R. 20W

DUPLICATE

JUN 7 1967

County Missoula

LOG

Bills ..... McDermott .....
Butte ..... Musselshell .....
Coyle ..... Morton .....
Ekalaka ..... Sullivan .....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Approx.

Top of Ground

(Elev. above sea level 3,800+)

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Formations Log:

0 - 4 Top soil.
4 - 6 Yellow clayey sand.
6 - 19 Tan silty sand with few scattered gravels.
19 - 32 Fine to coarse sand and gravel.
32 - 43 Sand and gravel imbedded in tan clay.
43 - 49 Fine to coarse sand and gravel. Water.
49 - 51 Tan clay.

Owner Neil R. Miller Co. Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 5/1/67 Date completed 5/1/67

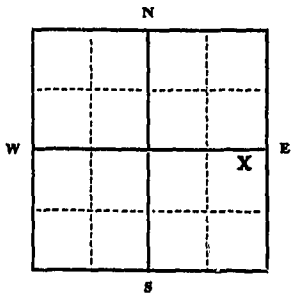
Type of well Driven (Dug, driven, bored or drilled) Equipment used Well driving rig (Churn drill, rotary or other)

Water use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [X] 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 5/8" OD x ¼"	+1	51	NONE		

Water rises in the well 12 feet from surface.



NW ¼SE Sec. 2 T. 12N R. 20W

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

Static Water Level for non-flowing well 12 feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 23 feet at 45 gal. per minute.

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

How Tested Air Lift Pump

Length of Test Four hours

Remarks: (Gravel packing, cementing, packers, type of shutoff). A steel drive point is welded to the bottom of the casing. The casing is perforated from 46 to 49 feet. All water entering the well is coming through the perforations in the casing.

(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 51'

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.

52
Driller's License Number

William E. Osborne
Driller's Signature.

42,047

1712 261209

I received and filed this Instrument for record on the 2 day of June 1967 at 1:02 o'clock P. M. permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Crouse, County Recorder

By M. M. Conaughey, Deputy

Fee $2.00 Paid

GW 2

STATE WATER CONSERVATION BOARD

MAY 3 1967

Approved Stock Form—State Publishing Co., Helena, Montana—43642

File No.....

Billie ..... McDermott .....
Butler ..... McNulty .....
Coyle ..... Morton .....
Darrington ..... Sullivan .....
Dickert .....

T. 12N R. 20W

DUPLICATE

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 Approx.

(Elev. above sea level 3203')

Formations Log:

0 - 1	Top soil.
1 - 8	Sandy clay. few scattered rocks.
8 - 12	Broken rock & cobblestones mixed in tan silt.
12 - 26	Sand, gravel & cobblestones mixed in tan silt.
26 - 43	Fine to coarse sand & gravel. Some water.
43 - 45	Tan clay.
45 - 50½	Sand & gravel. Water.
50½ - 55	Gravel imbedded in tan clay.

Water rises in the well 10 feet from surface.

Owner Neil R. & Virginia A. Miller Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

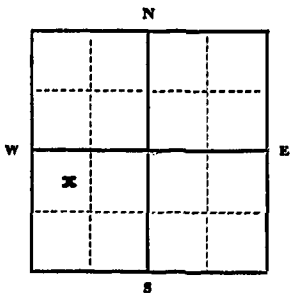
Date well started 12/12/66 Date completed 12/13/66

Type of well Driven (Dug, driven, bored or drilled) Equipment used Well Driving Rig (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 5/8" OD x ¼"	0	55	Torch cut	45	50'6"



Static Water Level for non-flowing well 10 feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 21 feet at 40 gal. per minute.

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

How Tested Air Lift Pump

Length of Test 2½ hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) A steel drive point is welded to the bottom of casing. The casing is perforated from 45 to 50'6" & all water entering the well is coming through these perforations.

SE¼NW¼, SW¼NE¼, NW¼SE¼, N½SW¼, SW¼SW¼, Less R/W & PT

¼ Sec. 2 T12N R. 20W

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).

Approx. 6 acres

Show exact depth of bottom.

Bottom of hole 55'

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.

52
Driller's License Number

William E. Osborne
Driller's Signature.

41,957

1698

260241

DUPLICATE

I received and filed this Instrument for record on the 1 day of May 1967 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. Conaway, Deputy

Fee $2.00 Paid

GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
JUN 5 1977
DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Missoula 7

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 Don A. Peressini

Address Route 3
Missoula, Montana

Date well started May 1965
completed April 1968

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

Equipment used Rotary 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 200,00 Gal

For Administrator's Use
File #2084, 317418
GW 1

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" 17# LF.	0	92			

N
W E
S

NE¼ SW¼ Sec. 2
T. 12 N R. 20 W

Static water level 32' from top ft.*
Pumping water level 98 ft.*
at 12 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Dwart
for hours.
Power Elec. Pump 1 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)
Cased w/ brass & rubber seal

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

Driller's Signature Harold K. Pickens

Driller's Address 3624 Scace
Missoula Mont LICENSE NO. 71

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	Topsoil & Cobbles
2	16	Clay & Rock
16	25	Clay
25	50	Clay & Shale
50	92	Shale w/ Rock Strata

92 Show exact depth of bottom

50,524

3284

317418

I received and filed this instrument for record on the 1 day of June 19 at o'clock A M., permanent files of Missoula County, State of Montana
Witness my hand.
Veranne R. Crouse, County Recorder
By Linda D. Johnson Deputy
Fee $ 1.00 cash Paid

GW

Approved Stock Form—State Publishing Co., Helena, Montana—41921

File No.....

T. 12 N. R. 20 W.

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

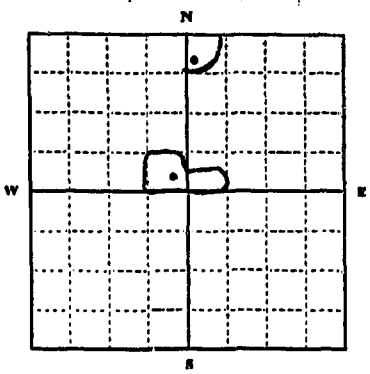
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1 Reno A. and Violet S. Peressini, of 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 Sec. 2 T. 12 R. 20.

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 One well used continuously since 1944, the other put into use in 1960.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 300 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 12 acres, part of North half of Southeast quarter (N½SE¼), Sec. 2, T. 12 N., R. 20 W. Reno A. Peressini and Violet S. Peressini.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal By centrifugal pump. Located one in SE corner of NW¼ of SE¼, and one in NW corner of NE¼ of SE¼ (approximately).

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater One well completed before 1944, other completed in 1960.

8. The depth of water table 10 feet 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 One driven 4-inch casing 25 feet deep; One dug well about 12 feet deep.

10. The estimated amount of groundwater withdrawn each year 25,000,000 per year.

11. The log of formations encountered in the drilling of each well if available 4 feet deep top-soil and then 25 feet 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 records (A water right to Bitterroot River is contained in land deed from Gust Wornath and Anna Wornath to Reno Peressini and Violet Peressini, recorded in Book 195 of Deeds, on page 367, Missoula County Records.

Signature of Owner Reno A. Peressini

Date December 27, 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.

15248

645 25019

I received and filed this instrument for record on the 27 day of Dec 1963 at 3:20 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN E. BERTSCH, County Recorder

By Mary A. Mahony Deputy

Fee $ 2.00 Paid

T. 12 N. R. 20 W 7

County Missoula

RECEIVED
JAN 23 1959
STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Clifford Olofson Address: Bx 217 Missoula

Driller: John Farrell Address: Arlee

Date Started: Dec 17-1958 Date Completed: Jan 8-1959

Location: Sec. ~~SW4~~ 2 T. 12 N. R. 20 W ¼ sec. SW4NE4 Sec 2

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

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

Industrial [ ] Drainage [ ] Other:

Casing: 6 ft. to 102 ft. Type seamless Size 5"

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: 8' feet.

Shut-in pressure, for flowing well: lb./sq. in. on: Jan 8 1959 (date)

Pumping water level 60 feet at 20 gal. per min.

How tested:

Length of test

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

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	

#38 158182

I received and filed this instrument for record on the 20 day of Jan 1957 at 3:05 o'clock P. M. in permanent files of Missoula County, State of Montana
[illegible]
[illegible] Recorder
By Carol Peltier Deputy
Fee $ .50 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—43642

File No.....

T. 12N R 20W 7

DUPLICATE

County Missoula

FEB 27 1969

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)

LOG

Top of Ground

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

0-81	Broken Rock & Redish Boulders
81-83	Tan Clay
83-94	Clay & Boulders
94-110	Clay & Gravel
110-114	Rock (Red)
114-116	Clay & Boulders
116-140	Clay & Boulders
140-150	Trace of water at 145'- Some Clay Mostly tan color rock.
150-152	Boulder
152-161'6"	Broken Rock & Water

Show exact depth of bottom.

Owner Robert C. Shaffer Address Forest Hill Lane 1522 S. 14th

Driller Glenn Camp Address Missoula, Montana

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

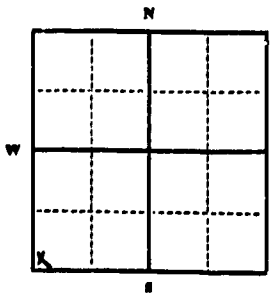
Date well started Jan. 8, 1969 Date completed Feb. 11, 1969

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" I.D.	6" I.D. 17 lb per ft.	1' above G.L.	156'5"		none	



SW 1/4 SW 1/4 Sec 2 T. 12N R 20W

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

Static Water Level for non-flowing well 135' feet.

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

Drawdown-6.5'

Pumping Water Level 141.5 feet

at 8% gal. per minute.

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

How Tested Test Pump

Length of Test 1 hour

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.

License 57
Driller's License Number

Glenn Camp
Driller's Signature. Glenn Camp

45,031

No. 279066

I received and filed this instrument for record on the 25 day of Feb 1969 at 10:30 o'clock A M., permanent files of Missoula County, State of Montana

Witness my hand

Veramae R. Cronin, County Recorder

By Doretta O'Keeney, Deputy

Fee $ 2.00 Paid

#1958

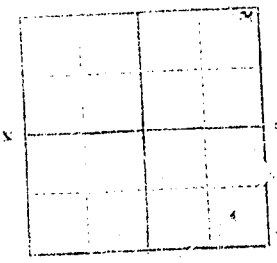
DELINQUENT

File No. 2 Gw. 5 wb

STATE OF MONTANA
ADMINISTRATOR OF CONSERVATION
OFFICE OF STATE HIGHWAY COMM.
HELENA

Motion of Condemnation for Highway Purposes

DEPARTMENT OF HIGHWAYS
STATE HIGHWAY COMMISSION
HELENA, MONTANA



GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4193

File No.....

T. 12 N R 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 17 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 7' Pit

7' to 87' Boulders, clay & gravel

87' to 88' Gravel & water (2 G.P.M.)

88' to 120'-5" Clay gravel & boulder

120' to 162' Gravel & water (5 G.P.M.)

162' to 165' Boulders & gravel

Owner Gus Wornath Address Missoula, Mont

Driller Glenn Camp 705 Alder Address Missoula

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

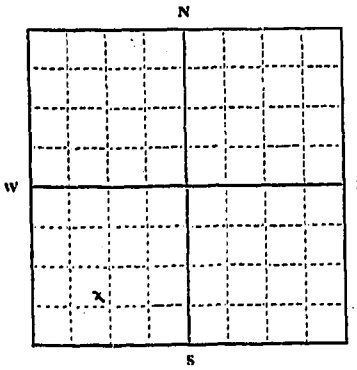
Date well started 1/15/64 Date Completed 1/28/64

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)
6"	6" 18.97#	8" above footing	to 157'-5"		none	



SW 1/4 Sec. 9 T. 12 R. 20

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

Static Water Level for non-flowing Well 73' from G.L. feet.

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

Pumping Water Level 150 feet at 9 gal. per minute.

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

How Tested Test pump Length of Test 1 3/4 hr

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)

none

Show exact depth of bottom.

Licence # 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.

34958

138 217114

Copy

I received and filed this instrument for record on the 3 day of Feb 1969 at 1:00 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. BEHNER, County Recorder

By Ethel Lance Deputy

Fee $9.00 Paid

GW 2

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

File No.....

T. 12 N R. 20 W

DUPLICATE

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1969
STATE ENGINEER

Top of Ground

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

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner R. L. Fournier Address Lolo Creek Road

Driller Lib. Well Diggers Address Missoula

Date of Notice of Appropriation of Groundwater ~~1st Time 1903~~ new Casing 1945

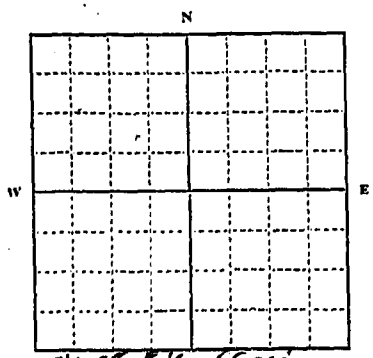
Date well started 1903 Date Completed 1945

Type of well Dug (dug, driven, bored or drilled) Equipment Used ~~Hand 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)
6 in	6 in Casing	2 above ground	110'	P	P	P



NE 1/4 of SE 1/4 of Sec. 6
.....1/4..... Sec..... T. 12 R. 20
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 — feet.

Shut-in Pressure for Flowing Well ✓

Pumping Water Level 4' feet at P gal. per minute.

Discharge in gal. per min. of flowing well P

How Tested P Length of Test P

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

R. L. Fournier
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.

20178

1058

215533

I received and filed this instrument for record on the 31 day of Dec. 1963 at 11:14 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. REHNER, County Recorder

By Ethel Jones Deputy

Fee $ 2.00 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—42339

File No.....

STATE WATER CONSERVATION BOARD

T. 12 N. R. 20 W.

DUPLICATE

County Missoula

MAR 14 1967

LOG

Billie ..... McDermott ..... Ryan
Butcher ..... McNally ..... Sullivan
Coyle ..... Morrison ..... Tyler
Dinnison ..... Oliver ..... Wilson
Dickert

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 .....)

0 to 3' top soil
3' to 41' Gravel & yellow clay
41' to 57' Water, gravel sand & clay
57' to 62' Sand & water
62' to 80' Gravel, sand & water
80' to 87' Clay & gravel
87' to 89' Water, fine sand, clay
89' to 97' Heavy gravel water, fine sand, some clay
97' to 117' Gravel, sand & water
117' to 120' Gravel, sand, water & trace of clay.

Show exact depth of bottom.

Owner Montana Power Address.....

Driller Glenn Camp 705 Alder Address Missoula, Montana

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

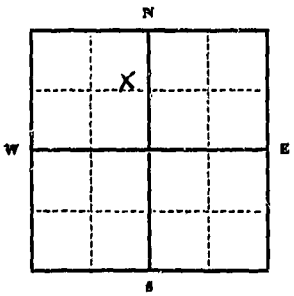
Date well started June 1, 1966 Date completed June 22, 1966

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"	12" 49 lb				101'	119'
				6 perforations to a circle - 8" apart 168 perforations		



N.E. 1/4 N.W. Sec. 5 T. 12 N. R. 20 W.

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

Static Water Level for non-flowing well 31½' from top of pipe feet.

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

Pumping Water Level not tested with test pump feet

approx 1500 gal. per minute.

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

How Tested not tested

Length of Test.....

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.

License 47
Driller's License Number

Glenn Camp
Driller's Signature

THE MONTANA POWER CO.
By Wm Talbott, Vice Pres.
40 E. Broadway, Butte, Mont. OWNER

41798

1688 258720

I received and filed this Instrument for record on the 10 day of March 1967 at 1:02 o'clock P.M. permanent files of Missoula County, State of Montana

Witness my hand:

Varamae R. Crouse, County Recorder

By M. McCarraghen Deputy

Fee $2.00 Paid

GW-

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

File No.....

T. 12N R. 20W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

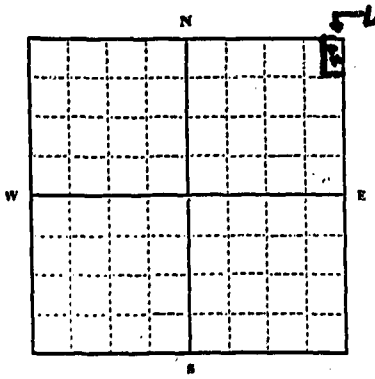
RECEIVED
JAN 2 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. James H. Cole Lois D. Cole of Rt #3 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. 7 T. 12N R. 20W

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 & irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1942 and continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 450 gal 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 1 acre James H Cole owner Lot 3 same since owned

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1942

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 Two wells, one at home 79' 6" casing one is barn 30' 3" casing shallow well

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

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 applicable

Signature of Owner James H Cole

Date Dec 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.

17665

875

215348
Copy

I received and filed this instrument for record on the 31 day of Dec 19 83 at 10:00 o'clock A M., permanent files of Missoula County, State of Montana

Witness my hand

MARTIN S. BENINDR, County Recorder

By Margaret S. Rehm Deputy

Fee $ 6.00 Paid

Helena Independent Record

File No.

DUPLICATE

T. 12 N R. 20 W. 7

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964
STATE ENGINEER

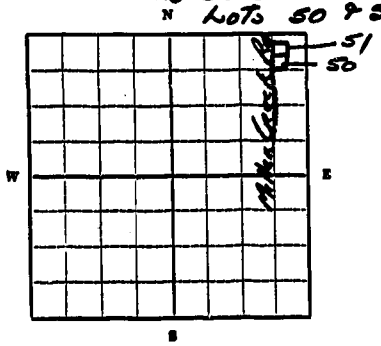
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

James H. Cole & Lois D. Cole

1. William F. Morrison & Margaret R. Morrison, 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: South Sides Home Addition Lots 50 & 51



NE¼ Sec. 7 T. 12N R. 20W.

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 and Irrigation

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 450 gal 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 3 acres Owner: Same as above

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Deep Well – Adjacent to house

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Approx 1948

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" Casing – 100 ft depth

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 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

Signature of Owner W F Morrison

Date 31 Dec 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.

20180

1060

215535

I received and filed this instrument for record on the 31 day of Dec. 1973 at 4:16 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN E. BEHNER, County Recorder

By MARTIN S. BOHNO Deputy

Fee, $ 3.00 Paid

Approved Stock Form—State Publishing Co., Helena, Montana—42262

File No. STATE WATER CONSERVATION BOARD

DUPLICATE APR 17 1967

T. 12N R. 20W

County Missoula

Bile McDermott
Bu McNally
Co
Da Sullivan
Docket

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater.....

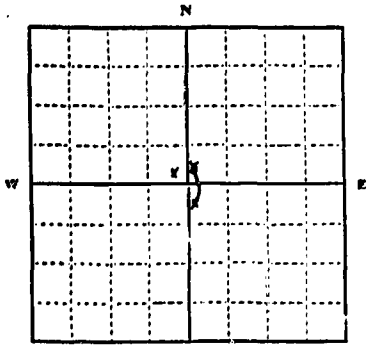
Owner J.G. Lamoreaux Address Box 1, Missoula, Montana

Contractor (if any) Donald M. Boostrom

Address of Contractor Box 2001 Curundu Canal Zone

Date Started..... Date Completed.....

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



SE¼ Sec 8 T12N R20W
SW¼ Sec. 9 T12N R20W

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

Actual Water Source

SE¼ of SE¼ Sec 8

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

2 - 3 inches in 3 inch pipe

Signature of Owner J.G. Lamoreaux

Date April 12, 1967

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.

41880