

#272

Copy

211804

I received and filed this instrument for
 record on the 19 day of Sept, 1963
 at 2:20 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 MARTIN S. BEHNER, County Recorder
 By Sherrill Deputy
 Fee \$ 2.00 Paid

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
 DATE 05-03-01 BY 60322 UC/BAW/STP/STP

RECEIVED
MAR 11 1958

T. 12 R. 19

County Missoula

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner A N Heft Address Missoula

Driller John Farrell Address Arlee

Date Started Jan 15 - 1958 Date Completed Jan 22 - 1958

Location: Sec. 5 T. 12 R. 19 1/4 sec.

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

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other: _____

Casing: 0 ft. to 132 ft. Type Black Size 6"

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: 60 feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: Jan 22 - 1958 (date)

Pumping water level 130 feet at _____ gal. per min. 25

How tested: Bailer

Length of test 1 1/4

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

(over)

File No.

T. 12 R. 19

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
JAN 3 1964

Top of Ground
(Elev. above sea level 3,205')

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Vernon Hoven, Trustee Address 125 West Main, Missoula, Montana

Driller John Farrell Address Arlee, Montana

Date of Notice of Appropriation of Groundwater 1/22/58

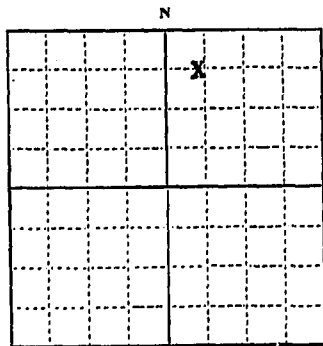
Date well started 1/15/58 Date Completed 1/22/58

Type of well drilled Equipment Used drill
(dug, driven, bored or drilled) (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" black	0	132	None		



132'

1/4 Sec. 5 T. 12 R. 19

Indicate location of well and place of use, if possible. Each small square represents 10 acres.
X - location of well use on NE 1/4 and SW 1/4
Show exact depth of bottom.

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

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

Pumping Water Level 93' feet at 55 gal. per minute.

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

How Tested Bailing Length of Test could not lower in 2 hrs

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

0-93' Heavy gravel clay

93-132' Water sand gravel

John Farrell
Driller's License Number
Owner's signature

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.

17681

391

215346

Copy

I received and filed this instrument in
 record on the 31 day of Dec, 1962
 at 10:35 o'clock A. M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
MARTIN S. BEYNER, County Recorder
 By Richard Behner, Deputy
 Fee \$ 2.00 Paid

RECORDED
 MISSOULA MONTANA

MISSOULA COUNTY RECORDER
 MISSOULA, MONTANA

File No.

T. 12N R. 19W

DUPLICATE

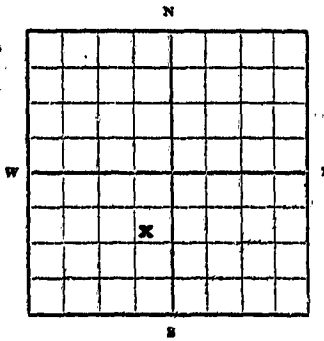
County Missoula

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. Dan and Vera M. O'Connor of 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:



SW 1/4 Sec. 5 T. 12N 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 1914 - continuous
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 400 gallons 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 None
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 1 1/2 h.p. electric motor and pump
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1914. Commenced and completed
- 8. The depth of water table 60 feet
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6 in. casing and 80 feet deep.
- 10. The estimated amount of groundwater withdrawn each year 1,350,000 gallons annually.
- 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. None

Signature of Owner Dan M O'Connor

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.

20386

1267

Copy
I received and recorded the Instrument of
record on the 21st day of Dec. 1963
at the Office of the permanent files
of Missoula County, State of Montana
Witness my hand:
By *M. J. [Signature]* County Recorder
For *[Signature]* Deputy
Fee \$ *4.00* Paid

GWS

5

File No.

T. 12 R. 19W

DUPLICATE MONTANA WATER RESOURCES BOARD

County Missoula

RECEIVED

STATE OF MONTANA

SEP 6 1967

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

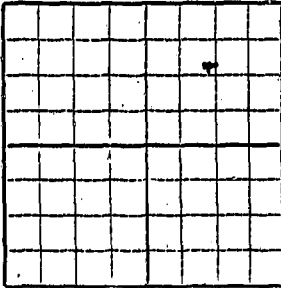
Date of Appropriation of Groundwater 1986
Daniel J. and Vera M. O'Connor. Address Rte 3, Missoula

Contractor (if any) None

Address of Contractor

Date Started 1986 Date Completed 1986

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable Spring in Section 5, Township 12 North, Range 19 West. Water rises to surface



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

NW 1/4 Sec 5 T. 12 R. 19W

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

Water is piped from springs for domestic use and irrigation about 10 miner's inches per minute.

Signature of Owner Daniel O'Connor Vera M O'Connor

Date August 31, 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.

This notice is to correct the description contained in the notice dated December 31, 1963, and filed for record the 31 day of

December, 1963

1733

263776

Received and filed this Instrument for
record on the 31 day of Aug. 1967.
at 11:15 o'clock P.M. per honor files
of Missoula County, State of Montana.
Witness my hand:
Varcoe R. Crouse, County Recorder
By *[Signature]* Deputy
Fee \$2.00 *[Signature]*

File No. _____

MONTANA WATER RESOURCES BOARD

T. 12N R. 19W

DUPLICATE

RECEIVED

County Missoula

LOG

JUL 25 1960

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)

- 0-7 Clay
- 7-34 Clay & Gravel
- 34-44 Gravel, Sand, Clay
Some Water
- 44-46 Sand, Gravel,
Water
- 46-51 Sand & Water
- 51-55 Gravel, Sand, &
Water (could
perforate)
- 55-57 Clay
- 57-59 Gravel, Clay,
Sand, Water
- 59-62 Gravel, Sand &
Water

Owner W. D. Brown Address 11 Martha Ct.

Driller Glenn Camp Address 1522 S. 14th

Date of Notice of appropriation of groundwater _____

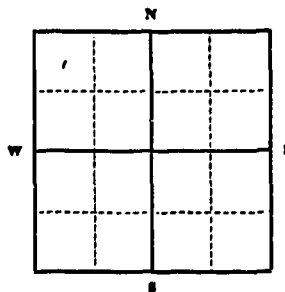
Date well started Dec. 7, 1960 Date completed Dec. 9, 1960

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" I.D. 17 lb per ft.	6"	62' 6" above G.L. of pipe			



Static Water Level for non-flowing well _____ feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level _____ feet
at _____ gal per minute.

Discharge in gal. per min. of flowing well _____

How Tested Compressor at 60 G.P.M.

Length of Test 3 1/2 hours

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

T 12, R 19
Lot #3, Zimmerman Tract

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).

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.

License # _____
Driller's License Number

Glenn Camp
Driller's Signature

44, 449

1807

273206

I received and filed this instrument for
record on the 23rd day of July 1908
at 11:00 o'clock A.M. (Merchant files
of Missoula County, State of Montana
Witness my hand:
Veranna R. Crouse, County Recorder
By *[Signature]* Deputy
Fee \$ 2.00 *[Signature]* Paid

File No. _____

T. 12 R. 19

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963

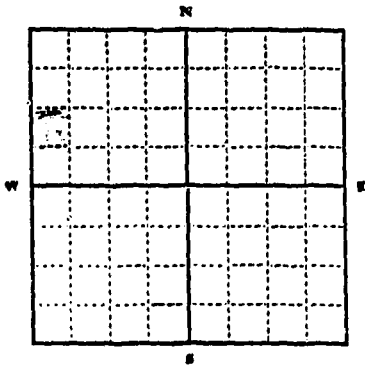
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

John T. and Louise A. Campbell of Route 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:



SW 1/4 NW Sec. 6 T. 12 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 and some irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been October 1950; continuous use

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 20 to 25 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 Minus 2 acres; T. 12, R. 19, sec. 6, SW 1/4

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well is approximately 15 ft. west of east property line and approximately 45 ft. north of south property line.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 4 inches, steel, August 21-22, 1956.

8. The depth of water table 20 to 40 feet

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

Drilled well. Total depth 85 feet. Cased with 4-inch casing.

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

11. The log of formations encountered in the drilling of each well if available 5 feet, topsoil; 5-20 feet, boulders and gravel; 25-50 feet, sand and clay; 50-70 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 record Unknown at this time.

John T. Campbell
Signature of Owner Louise A. Campbell
Date December 31, 1962

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

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

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

20439

1319

I received and filed this instrument for
record on the 31 day of Dec, 1957.
at Boz o'clock P M. permanent files
of Missoula County, State of Montana
Witness my hand:
By [Signature] County Recorder
Fee \$ 2.00 Deputy
Paid

2341

322677

I received and filed this Instrument for
 record on the 28 day of Sept. 1972
 at 12:15 clock P.M. in the City
 of Missoula County, State of Montana
 Witness my hand
 Veronique R. Crease, County Recorder
 By Thomas J. Spalding, Deputy
 Fee \$ 9.00 Paid

RECORDED
 INDEXED
 FILED
 MISSOULA COUNTY, MONTANA
 SEP 28 1972
 MISSOULA, MONTANA

File No.

T. 12 N. R. 19 W.

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964

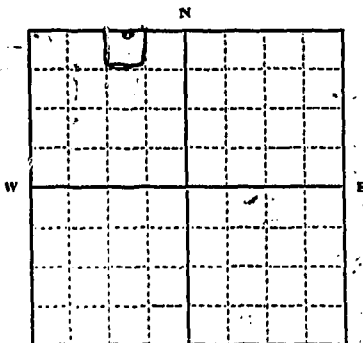
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

Walter W. Hays, of 2415 39th Missoula
(Name of Appropriator) (Address) (Town)

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



N 1/4 of NW 1/4
Sec. 6 T. 12 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 and irrigation of garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Sept 1959 used for 2 1/2 years

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 90 gals 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 Walter W. Hays

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal By pump well & pump located in garden

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

8. The depth of water table 30 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 78 ft depth

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 Applicable

Signature of Owner Walter W. Hays

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.

1153

I received and filed this instrument for
record on the 13th day of Nov 1913
at 5:50 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand
By Marta S. Brown County Recorder
Marta S. Brown Deputy
Fee \$ 2.00 Paid

RECEIVED
OCT 1 1957

T. 12 R. 19 S. 4
County Missoula

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Marshall ~~Stewart~~ and ~~W.B. Spidg~~
 Driller: John Farrell Address: Arlee Montana
 Date Started: July 1 1957 Date Completed: July 30-1957
 Location: Sec. 6 T. 12 R. 19 1/4 sec.

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

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other: _____

Casing: 0 ft. to 315 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: 326' (Original copy on file in Missoula, Montana shows 226') feet.

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

Pumping water level: 324' feet at _____ gal. per min. 5

How tested: Bailey

Length of test: 2 hrs

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	
		10 ft pit
6	22	clay gravel
22	68	Sand Boulders
68	120	gray clay
120	128	dry sand gravel
128	132	sand little water
132	190	Brown clay
190	260	green clay
260	284	green sand little water
284	295	green clay
295	312	Brown clay green sand
312	325	green clay
225	226	water + green gravel

9 146579 copy

I hereby certify that the person for
 record in the above record is
 the owner of the property
 at 1250 West 11th Street
 of Milwaukee County, State of Wisconsin.
 Witness my hand
 this 11th day of July, 1957
 By James J. Jones County Recorder
 Fee \$ 50 Paid

File No. _____

T. 12^N R. 19^W

DUPLICATE

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

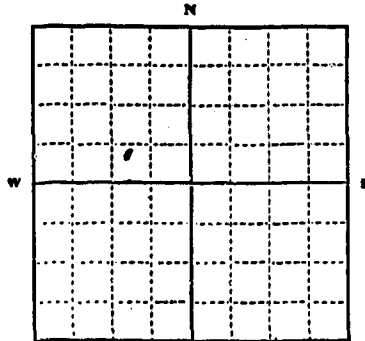
RECEIVED
JAN 13 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

I, MARSHALL J HENRY, of MISSOULA
(Name of Appropriator) (Address) (Town)
County of MISSOULA State of MONT
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



E 1/2 LOT 3 E 1/2 SE 1/4 NW 1/4
E 1/2 E 1/2 SW 1/4 SE 1/4

1/4 Sec. 6 T. 12 R. 17
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 + stock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been PRIOR TO 1947
constantly

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

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 PUMP

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1 WELL 1957 2 Wells PRIOR TO 1947

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 1 Well 32.5 ft 2 Wells discontinued

10. The estimated amount of groundwater withdrawn each year

11. The log of formations encountered in the drilling of each well if available Small well drilling log sent log in 1958

12. Such other information of 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 Marshall J Henry

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.

1342 215966

copy

I received and read this instrument for
record on the 3 day of Jan 1963
at 8:02 o'clock A.M. Government time
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By [Signature]
Fee 52 Paid

File No. _____

DUPLICATE

12 19 66
T. R. 19
County Missoula

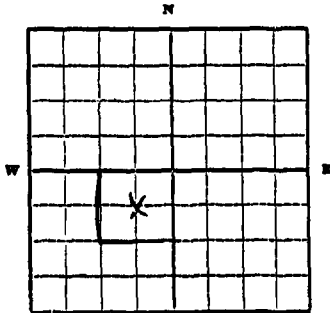
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
APR 20 1966

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

STATE ENGINEER

1. Hillside Manor of 4720 - 23rd 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:



net
S.W. 1/4 Sec. 6 T. 12 R. 9
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 Supply domestic and irrigation water for nursing home.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Sept. 9, 1961

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 24 gal per minute

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Aug. 14, 1961 to Sept. 9, 1961

8. The depth of water table 92 foot from 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 Well No. 1 drilled 6-inch well 283 ft deep with a 6-inch Johnson over door well screen from 273 to 283 feet. Well No. 2, drilled 6-inch well 123 foot deep with a 6-inch Johnson well screen from 128 ft to 134 ft.

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

11. The log of formations encountered in the drilling of each well if available Well # 1 dry gravel sands and clay to 273 and water bearing sand to 283 ft. Well # 2 dry gravels and sands and clay to 128 ft and water bearing sand and gravel from 128 ft to 134 ft.

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 applies to two separate well in close proximity about 300 ft apart.

Hillside Manor
Signature of Owner Leonard Esterling
Date April 17, 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.

130

192139

I received and filed this instrument for
record on the 17th day of Apr 1922
at 4:30 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand
MARTIN E. LEHNER, County Recorder
By Leanne Crane Deputy
Fee \$ 2.00 Paid

File No. _____

MONTANA WATER RESOURCES BOARD

T 12 N R 19 W

DUPLICATE

RECEIVED

County Missoula

LOG

AUG 30 1968

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)

Butte, Montana

0-4 Topsoil

4-23 Clay & Gravel

23-60 Water, Sand, Gravel Owner MONTANA POWER COMPANY Address _____

60-64 Clay & Gravel Driller Glenn Camp Address 1822 S. 14th W. Missoula, Montana

64-80 Water, Sand & Gravel Date of Notice of appropriation of groundwater August 23, 1968

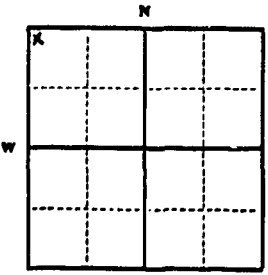
80-83 Clay & Gravel Date well started July 19, 1968 Date completed August 6, 1968

83-87 Sand & fine Gravel Water Type of well Drilled Equipment used Churn Drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

87-105 Sand, large gravel Water 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 and Size	From (Feet)	To (Feet)
16" I.D.	16" I.D. 62.50 lb per ft.	1 1/2'	103'	Knife 3/8" x 4"	95'	103'
				21 circles 8" apart 10 per circle		
				Total of 210 perfor.		



Static Water Level for non-flowing well 30'7" feet.
from top of pipe
Shut-in Pressure for Flowing Well N.A.
Pumping Water Level 32' feet
at 1000 gal. per minute.
Discharge in gal. per min. of flowing well N.A.

How Tested Test Pump
Length of Test 7 1/2 hours
Remarks: (Gravel packing, cementing, packers, type of shutoff) 2 Sacks of Cement set up in bottom of well.

THE MONTANA POWER COMPANY
By W. W. Tallent
Vice President
40 E. Broadway, Butte,
Montana
APPROPRIATOR

N.W. 1/4 NW Sec. 6, T. 12 N., R. 19 W.
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).
Not Applicable

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.

License # 7
Driller's License Number
Glenn Camp
Driller's Signature

44,540/4,539

1815

274123

I received and filed this instrument for record on the 28 day of Aug. 1948 at 2:10 o'clock P. M., permanent files of Missoula County, State of Montana. Witness my hand: Verance E. G. Sisco, County Recorder. By L. Billings Deputy. Fee \$ 2.00 Paid Ch.

Index of Book _____
 Page _____

Number of copies _____
 Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

Amount _____

File No. MONTANA WATER RESOURCES BOARD

T. 12 N. R. 19 W

DUPLICATE

RECEIVED

County Missoula

AUG 30 1968

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

1. X THE MONTANA POWER COMPANY, of 40 E. Broadway Butte (Name of Appropriator) (Address) (Town) County of Silver Bow, State of Montana, intends 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 for municipal water supply. PURPOSE (describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed is one thousand (1,000) gallons per minute

4. The annual period (inclusive dates) of intended use is 24 hours per day, January 1 through December 31 each year.

5. The probable or intended date of first beneficial use is August 6, 1968

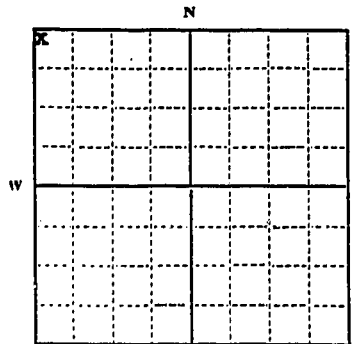
6. The probable or intended date of commencement and completion of the well* or wells* is July 19, 1968

7. The location, type, size and depth of well or wells contemplated is a drilled, 16" I. D. well, perforated to a depth of 105 feet.

8. The probable or estimated depth of the water table or artesian aquifer is 95-105 feet

9. Name, address and license number of the driller engaged is Glenn Camp, 1522 S. 14th W., Missoula, Montana - License #7

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



THE MONTANA POWER COMPANY

By W. J. Tallant Vice President 40 E. Broadway, Butte, Montana APPROPRIATOR

NW 1/4 Sec. 6 T. 12 N. R. 19 W. Locate well or other means of development as accurately as possible on the plat.

Date August 23, 1968

* 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.

44,541

6814

274162

I received and filed this instrument for
record on the 28 day of Aug, 1968
at 8:07 o'clock A.M., permanent files
of Missoula County, State of Montana
Witness my hand:
Verano R. Crouse, County Recorder
By J. Killings, Deputy
Fee \$ 7.00 Paid ed.

6

File No.

T. 12 N. R. 19 W

DUPLICATE

County. Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963

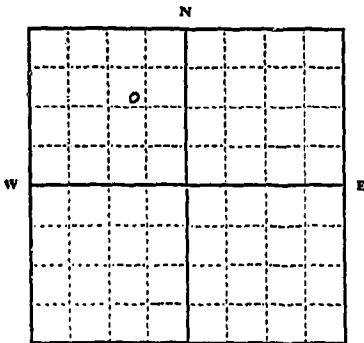
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

Walter and/or Madel Peery, of Route 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:



NW 1/2 SE 1/4 NW 1/4 of Lot 3
1/4 Sec. 6, T. 12 N. 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.....

Domestic use

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

1944 Every day

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

600 gal. Per Hr.

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.....

Just for source well
Water for 75 Cattle 6 mo year

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

Electric Pump
Surface in the ground

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

1944

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

60 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.....

Depth 110 ft. 40 ft. of water
1/2 Horse Power motor 1 1/2 pipe 40 lb. Pressure

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 references to book and page of any county record.....

Signature of Owner Walter and/or Madel Peery

Dated 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.

20101

No. 2154 54

I received and filed this instrument of record on the 7th day of Dec 1967 at 1:00 P.M. permanent files of Missoula County, State of Montana
Witness my hand
MARTIN S. BEHNKE County Recorder
By *Martin S. Behnke* Deputy
Fee \$ 2.00 Paid

36

File No. _____

T 12 N R 19 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

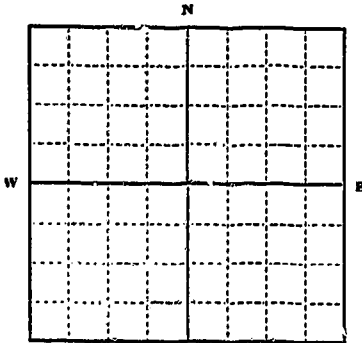
RECEIVED
JAN 3 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Wilbur E. + Christine Purdy, of 2425 39th 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:



W 1/2 L 3 Purdy Addition
1/4 Sec. 6 T. 12 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 drinking
lawn sprinkling, etc.

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

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

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 irrigation - 1451290
Wilbur E. + Christine Purdy

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well
2425 39th St.

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

8. The depth of water table 60-70

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 60-70

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

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 # 1 Plate book page 73

Signature of Owner Christine Purdy

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.

20425

7306

Copy
I received and filed this instrument for
record on the 21 day of Dec, 1967
at 10:30 o'clock AM permanent files
of Missoula County, State of Montana
Witness my hand: _____
By [Signature] County Recorder
Fee \$ 2.00 Paid

RECEIVED

JAN 27 1959

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. 12N R. 19W

County Missoula

NE Cor. Sec. 6
T12N R19W

WATER WELL LOG

	x	Well

Owner Bertha H. Rehder Address Missoula, Montana

Driller A. R. Mowbray Address Missoula, Montana

Date Started Dig. 1890 Date Completed Cased 1943

Location: Sec. 6 T. 12N R. 19W 1/4 sec. Lot 2 & SW 1/4 NE 1/4

Type of well Originally dug Cased 1943 Equipment used
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other:

Casing: 0 ft. to 60 ft. Type: Size 4" (Four Inch)

Casing:

Casing:

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

Type of screen or perforations

Static Water level, for non-flowing well:

Shut-in pressure, for flowing well:

Pumping water level 10 (ten) feet at 40 (forty) gal. per min.

How tested:

Length of test:

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

(over)

File No. _____

T 12 R 19

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

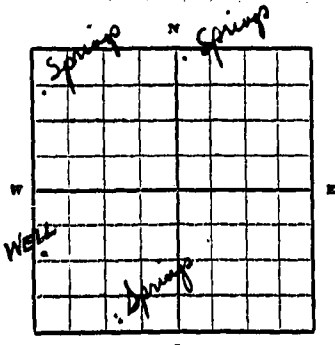
RECEIVED
OCT 23 1963

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

LOUISE GROUT of Seattle, Washington, and
HARRIET FLACCUS, ROBERT C. LINE JR. and
1. DAVID C. LINE of RFD Whitaker Hill Drive
Missoula, Montana

(Name of Appropriator) of (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:



SW 1/4
NW 1/4, Sec. 9, T12NR.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 For stock, irrigation and soil treatment
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been Continuous since October 1961 Springs since 1933
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) (Well) Flow of 3 gal. per minute or 3 million gal. annually
- 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 NW 1/4 SW 1/4, Sec. 9, T. 12 N., R. 19 W., Missoula County, Montana. Owners as in No. 1 above.
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal By siphon - Location per diagram at left Springs - free flow

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater July 1961 and completed October 1961
- 8. The depth of water table Unknown. Well depth 18 feet. In Spring full; by Fall down to 1 1/2 feet in depth.
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Well dug by backhoe on tractor. 5 foot opening, 18 feet in depth, wood cribbing, no casing.
- 10. The estimated amount of groundwater withdrawn each year Approximately 3 million gallons. Unestimated amount from Springs.
- 11. The log of formations encountered in the drilling of each well if available Formation consisted of topsoil, clay and gravel. Log not kept.
- 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.

Louise Groat Signature of Owner Robert C. Line Jr.
Harriet Flaccus David C. Line Date October 15, 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.

Missoula

HARRIET FLACCUS, ROBERT LINE JR.
and DAVID C. LINE,

t y are are

s

s s are

s s t y

October 63.

Missoula, Montana.

STATE OF WASHINGTON]
] ss.
County of King]

LOUISE GROUT, having first been duly sworn, deposes and says that she is of lawful age and is one of the appropriators and claimants of the order and water right mentioned in the foregoing declaration of vested groundwater rights and the person whose name is subscribed thereto, as the appropriator and claimant; that she knows the contents of said foregoing notice and that the matters and things therein stated are true.

SUBSCRIBED AND SWORN TO before me this
day of October, 1963.

NOTARY PUBLIC for the State of Washington.
Residing at Spokane, Washington.
My Commission expires

I received and filed this instrument for
record on the 21 day of Oct. 1963
at 11:35 o'clock A.M. permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By: *Harriet Flaccus* Deputy
Fee: \$3.00 Paid

212113

#244

File No.

T. 12N R. 19W
RECEIVED
OCT 23 1963
STATE ENGINEER

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground
(Elev. above sea level 4200 ft.)

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)
LOUISE GROUT - - - - - Seattle, Washington

Owner C. LINE JR. and DAVID Address Missoula, Montana

Driller Robert C. Line Jr. Address " "

Date of Notice of Appropriation of Groundwater

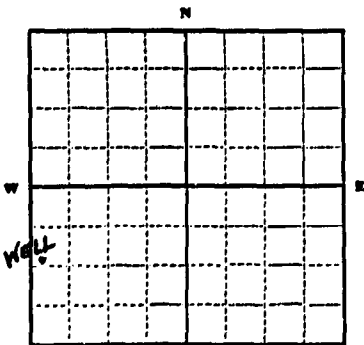
Date well started July 1961 Date Completed October 1961

Type of well Dug well Equipment Used Tractor & back-hoe
(dug, driven, bored or drilled) (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 and Size	From (Feet)	To (Feet)
5 ft.	No casing (wood cribbing)			None		



SW 1/4 NW 1/4 SW 1/4
..... 1/4 Sec. 9 T. 12N 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 Fills to top in spring feet.

Shut-in Pressure for Flowing Well Same

Pumping Water Level MB pumping by siphon feet at

Discharge in gal. per min. of flowing well 3 gal. per minute
Annual flow 3 million gallons

How Tested..... Length of Test.....

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

but formation of clay, gravel and topsoil.
Runs into tanks on siphon from well.

Show exact depth of bottom.
18 feet.

David Gout Driller's License Number
Harris Flaccus
Robert C. Line Jr. 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.

6600

Missoula
HARRIET FLACCUS, ROBERT C. LINE JR. and
DAVID C. LINE,

t y are are s
19 1963

October 63.

Missoula, Montana.

STATE OF WASHINGTON]
County of King] ss.

LOUISE GROUT, having been first duly sworn, deposes and says that she is of lawful age and is one of the appropriators and claimants of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name is subscribed thereto, as one of the appropriators and claimants, that she knows the contents of said foregoing notice and that the matters and things therein stated are true.

SUBSCRIBED AND SWORN TO before me this _____ day of October, 1963.

NOTARY PUBLIC for the State of Washington.
Residing at Spokane, Washington,
My Commission expires _____

I received and filed this instrument, as record on the _____ day of _____, 1963 at _____, Clerk P. M., permanent files of Missoula County, State of Montana
Witness my hand
MAYN S. BEHNER, County Recorder
By _____ Deputy
Fee \$ _____ Paid

285
812114

Form No. 18
8-60

6

T. 12N R. 19W
County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

(D)
RL

WATER WELL LOG

STATE ENGINEER

4		

Owner Leonard Senchal Address 243 Dixon, Missoula
Driller Glenn Camp, 705 Alder Address Missoula, Montana
Date Started April 19, 1961 Date Completed April 22, 1961
Location: Sec. 6 T. 12N R. 19W $\frac{1}{4}$ sec. NW $\frac{1}{4}$ NW $\frac{1}{4}$

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other _____

Casing: 4" above ground level to 88'-7"ft. Type Seamless Size 6" I.D. 19 lbs to ft.

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: 34' feet.

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

Pumping water level 34' feet at 28 G.P.M. gal. per min. _____

How tested: Bailer (compressor test 60 G.P.M.)

Length of test 1 hour

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

All three copies to be filed with the County Clerk and Recorder.
Lot A, Tract 26, Southside Homes, according to the official plat thereof,
as filed in the Clerk and Recorders Office, Missoula County, Montana.

(over)

RECEIVED
OCT 1 1957

T. 12 R. 19
County Missoula

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Don Tripp Address Cable Springs

Driller John Farrell Address Arden

Date Started July 22 - 1957 Date Completed Sept 26 - 1967

Location: Sec. 6 T. 12 R. 19 1/4 sec.

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

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other: _____

Casing: 0 ft. to 74 ft. Type Annular 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: 35' feet.

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

Pumping water level 70' feet at _____ gal. per min. 18'

How tested: Bailer

Length of test: 1 1/4

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

(over)

7

File No.....

T12N R19W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECORDED
JAN 3 1964

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater June 1, 1948

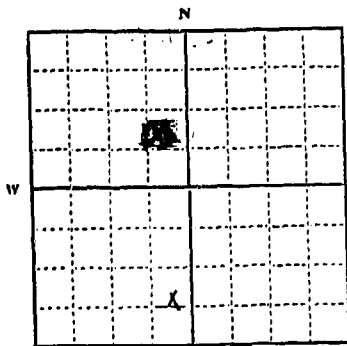
Owner R. D. McCullough Address Missoula, Mont.

Contractor (if any) N.A.S.

Address of Contractor

Date Started June 1, 1948 Date Completed June 1, 1948

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Dug out spring. Approximately 4' of gravel in bottom.



NE 1/4 SE 1/4 SW 1/4 Sec. 7 T12N R19W
Indicate point of appropriation and place of use, if possible.
Sec. 7, T12N. R19W.

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 5.0 minutes

inches in spring at year, decreasing to 100 g.p.h. in 10 days in late fall.

Flow measured periodically by gage 30 gal. tank.

Signature of Owner R. D. McCullough

Date 12/31/63

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

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

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

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

0221

Copy
74031st 9 Dec. 63
of 2.11.1
With
By Martin S. B. Rine Recorder
Fee \$ 1.00 Deputy

GW 3

File No.

DUPLICATE

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

T 12 North 19 West Sec 7

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
AUG 21 1964

Notice of Completion of Groundwater Appropriation Without Well

STATE ENGINEER

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater August 12, 1964

Owner Otto Tietz Address 3535 So. 3rd West

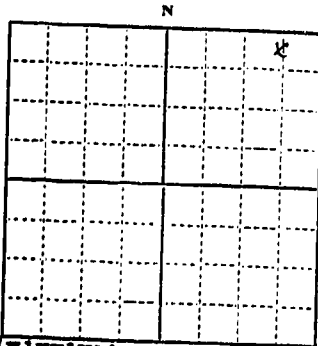
Contractor (if any) Erna P Tietz Wife None

Address of Contractor

Date Started Natural Date Completed XX

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

Dug out to a dept. of about 4 ft



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. Used for

LINE 12 of Section 7
Township Twelve (12) North
Approx 600 ft west of East Line
Approx 620 ft north of North line

Signature of Owner Otto Tietz

Date August 12, 1964

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.

38393

#1434

225111

I received and filed this instrument for
record on the 13 day of Aug 19 64
at 1:45 o'clock P. M., permanent filer
of Missoula County, State of Montana
Witness my hand:
Veramo R. Crouse, County Recorder
By *Harold J. Head*, Deputy
Fee \$ 2.00 Paid

File No.

T 12 R 19

DUPLICATE

County
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER 1963



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: Richard J. Hayden Address: Missoula

Driller: Glenn Camp Address: Missoula

Date of Notice of Appropriation of Groundwater: Dec 31, 1963

Date well started: Aug 12, 1962 Date Completed: Aug 15, 1960

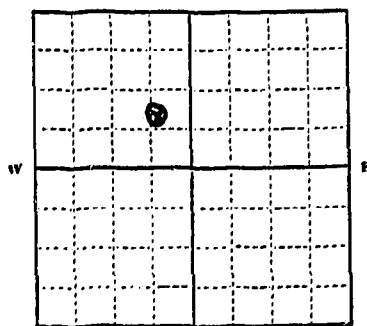
Type of well: drilled Equipment Used: Churn
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

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" ID	19 lb. sand.	2 1/2 ft	29 ft.	26	38	
5" ID	14 lb. sand.	24 ft	38 ft			

R 19 W T 12 N



NW 1/4 Sec. 9 T 12 N R 19 W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well: 20 ft. feet.

Shut-in Pressure for Flowing Well:

Pumping Water Level: 29 feet at 7 gal. per minute.

Discharge in gal. per min. of flowing well:

How Tested: jet pump Length of Test: 16 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) Not known.

Show exact depth of bottom.

Driller's License Number
Richard J. Hayden
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.

1150

I received and filed this instrument for
record on the 21 day of Dec 19 1923
at 5:27 o'clock P.M. in permanent files
of Missoula County, State of Montana
Witness my hand
By Marta J. H. Recorder Deputy
Fee \$ 2.00 Paid

File No.

DUPLICATE

44-12-1964 8
T 12N R 19W
County of Missoula
JAN 3 1964
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... Dec 31, 1963

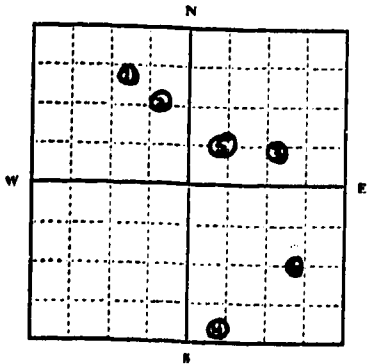
Owner Richard Hayden Address Missoula

Contractor (if any)

Address of Contractor

Date Started... Not known Date Completed... Not known

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



1/4 Sec. 8 T. 12N R. 19W
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.....

- ① 6 gal/min. (spring & ponds) Manned with bucket & watch.
- ② 18 gal/min. (spring)
- ③ ~20 gal/min. (spring & pond)
- ④ ~10 gal/min. (spring & pond)
- ⑤ 6 gal/min. (spring & pond)
- ⑥ 2 gal/min. (spring & pond)

Signature of Owner: Richard J. Hayden

Date: Dec 31, 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.

1149

I received and filed this instrument for
record on the 21 day of Dec 1963
at 546 1/2' elev. P. M., permanent files
of Missoula County, State of Montana
Witness my hand:
By *Walter S. Helms* Recorder
Deputy
Fee \$ 7.00 Paid

File No.

T. 12N R. 19W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

Notice of Completion of Groundwater Appropriation
Without Well

STATE ENGINEER

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1958

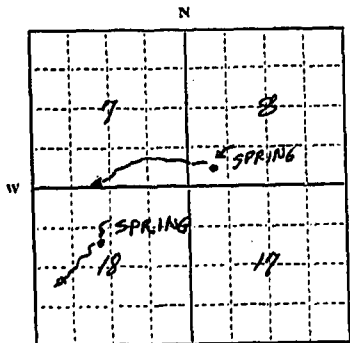
Owner HAROLD LAKE & JAY W. M'AFEE Address P.O. Box 1421 Missoula, Mont.

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. domestic use and stock water.



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

continuous use

1/4 Sec ^S 7, 8, 18 T. 12N R. 19W
Indicate point of appropriation and place of use, if possible.

Signature of Owner Harold Lake & Jay W. M'afee

Date Dec 20, 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.

570

214 894

Copy
 I received and filed this instrument for
 record on the 26 day of *Dec* 1963
 at 11:24 o'clock *A.M.*, permanent files
 of Missoula County, State of Montana
 Witness my hand:
MARTIN S. BEHNER, County Recorder
 By *Martin S. Behner*, Deputy
 Sec 5 A. M. S. P. 2

File No.

T. 12 N. R. 19 W.

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

Declaration of Vested Groundwater Rights

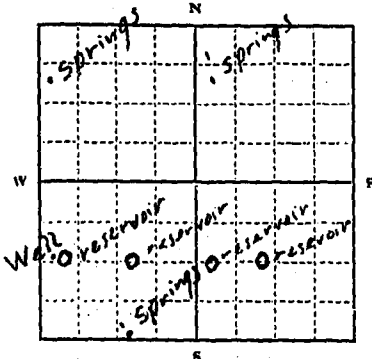
LOUISE GROUF OF SEATHLEder Chapter 237, Montana Session Laws, 1961)
Washington and Harriet Flaccus, Robert C. Line Jr.
and David C. Line

STATE ENGINEER

RFD 3 Whitaker Hill Drive

1. (Name of Appropriator) of Missoula, Montana (Town)

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



1/4 Sec. 9 T. 12 N. 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 for agricultural household, irrigation and general farm use, including water for stock raising

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Well, continuous since October 1961. Springs, continuous since December 1933

4. The amount of groundwater claimed (in miner's inches or gallons per minute) For well-3 gal. per minute; 3 million gal. annually. For springs-all available with a total of 100 million gal. per year plus unknown amount.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. Lots 2 to 7, Part lots 8 to 10, all lot 11. Sec. 9 T. 12 N., R. 19 W., Missoula Co., Montana. Owners as in No. 1 above. (50 acres)

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. For well-Siphon. Located on diagram. Springs are free flow to surface

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. For well-July 1961 and completed October 1961. For springs- December 1933

8. The depth of water table. Unknown. Well depth 18 feet. In Spring it is full; by Fall down to 1 1/2 feet in depth. For springs a few inches to 20 feet or more down. Various levels

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 dug by backhoe and tractor; 5 foot opening; 18 feet in depth, wood cribbing; no casing. For springs, trenches, hill side cuts with tractor. Spring box as major collecting agency taking water from free flowing springs, stimulated by removal of surface debris; use of reservoirs and syphon systems.

10. The estimated amount of groundwater withdrawn each year. For wells, approximately 3 million gallons. For springs, in excess of 100 million gallons

11. The log of formations encountered in the drilling of each well if available. Formation consists of top soil, clay and gravel. Log not kept.

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.

Louise Grof

Signature of Owner. Robert C. Line, Jr.

Harriet Flaccus

David C. Line

Date. December 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.

Missoula David C. Line
Harriet Flaccus, Robert C. Line Jr. and/

t y are

are

s

s

s are

s

s

t y

STATE OF WASHINGTON)
) ss.
County of King)

LOUISE GROUT, having first been duly sworn, deposes and says that she is of lawful age and is one of the appropriators and claimants of order and water right mentioned in the foregoing declaration of vested groundwater rights and the persons whose names are subscribed thereto as the appropriators and claimants; that she knows the contents of said foregoing notice and that the matters and things therein stated are true.

SUBSCRIBED AND SWORN TO before me this ___ day of December, 1963

NOTARY PUBLIC for the State of Washington.
Residing at _____
My Commission expires _____

214 913

I received and filed this instrument for record on the 13th day of Dec. 1963 at 11:25 a.m. permanent file of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By: [Signature] Deputy
Fee \$ 2.00 Paid

File No.

T. 13N R. 19W

12N 19W

DUPLICATE

County. Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater..... 1886

Dan and

Owner. Vera M. O'Connor Address. Rte. 3, Missoula

Contractor (if any) None

Address of Contractor

Date Started..... 1886..... Date Completed..... 1886

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Two springs - one in sec. 9.

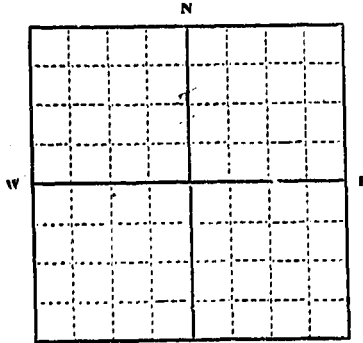
Twp. 12 N., Rge. 19 W., and other in Sec. 32,

Twp. 13N, Rge. 19W. Water rises to surface.

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.....

Water is piped from springs for domestic use and irrigation about 10 inches per minute.



Indicate point of appropriation and place of use, if possible.
E 1/2 SW 1/4 T. 13N R. 19W
Section 9

Signature of Owner. Vera M. O'Connor

Date. December 31, 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.

1269

Copy
I have caused this document to be
recorded at 1269 State Dec. 1963
of Missouri permanent files
of Hillsdale County, State of Montana
Witness my hand
By Marion A. Dehn County Recorder
Fee \$ 2.00 Deputy
Paid

File No.

T2N R. 19W

DUPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Top of Ground
(Elev. above sea level 4000 fts.)

Approx.

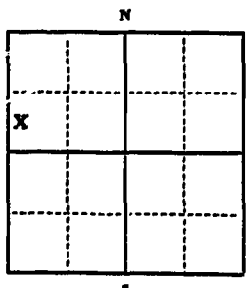
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

Formations Log:

- 0 - 2 Dirt, clay and rock. (Under Chapter 237 Montana Session Laws, 1961, as amended)
- 1 - 4 Clay and chunks of rock. Owner John R. Means Address Missoula, Montana
- 4 - 9 Red argillite rock. Driller Liberty Drilling Co. Address Missoula, Montana
- 9 - 11 Clay and broken rock. Date of Notice of appropriation of groundwater NONE FILED
- 11 - 84 Boulders and gravel mixed in brown clay. Date well started 5/22/69 Date completed 8/14/69
- 84 - 163 Brown clay with some sand and gravel mixed in. Type of well Drilled Equipment used Air Rotary
(Dug, driven, bored or drilled) (Churn drill, rotary or other)
- 163 - 236 Tan clay with streaks of sandy gravel. Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other
- 236 - 253 Gravel mixed in brown sandy clay. 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.
- 253 - 269 Tan clay with fine streaks of gravel.
- 269 - 276 Cobblestones and gravel mixed in tan clay.
- 276 - 299 Sand and gravel imbedded in tan clay.
- 299 - 327 Sand and gravel. Some clay mixed in.
- 327 - 354 Light brown clay.
- 354 - 419 Some gravel imbedded in light brown clay. Seeps of water.
- 419 - 428 Red gravel with some clay mixed in.
- 428 - 434 Gravel mixed in reddish brown clay.
- 434 - 435 Clay and gravel mixed. Some water.
- 435 - 461 Light brown and tan clay. Some gravel mixed in.
- 461 - 480 Red green and gray fractured rock.

	Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
					Kind Size	From (Feet)	To (Feet)
253 - 269	6"	6 5/8" OD x 1/2"	+2	654	NONE		



Static Water Level for non-flowing well 382 feet.

Shut-in Pressure for Flowing Well NONE

Pumping Water Level 372 feet

at 18 gal. per minute.

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

How Tested Air Lift Pump

Length of Test 1 1/2 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming from cracks and seams in the rock below 654 feet.

SW Parcel A
1/4 Sec. 11, T12N R. 19W
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

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 well 791 ft.

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 F. Osborne
Driller's Signature.
45606

1929

I received and filed this instrument for
 record on the 2 day of Sept. 1929
 at 1:30 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Verence E. Grouse, County Recorder
 By Walter H. Smith Deputy
 Fee \$..... Paid OK

Water rises in the well 382 feet from surface.

480 - 654 Tan clay and gravel.
 654 - 658 Purple rock. Total 18 GPM
 658 - 791 Purple and gray rock.

MISSOULA COUNTY RECORDERS OFFICE
 MISSOULA, MONTANA
 RECEIVED FOR RECORD
 SEP 2 1929

GWs

File No.

DUPLICATE

SW

T. 12^N R. 19^W

County Missoula

RECEIVED

DEC 3 1963

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1952

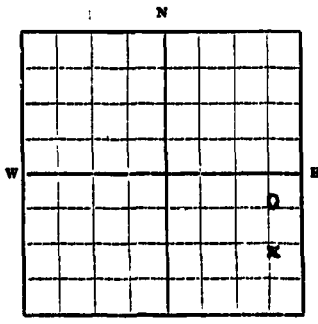
Owner Mitsuru J. Nakamura Address Route 4, Missoula, Montana

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. natural underground spring.



SE 1/4 Sec. 11 T. 12N R. 19 W

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

x is point of appropriation.
O is point of use.

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 approximately

4500 gallons per day during 12 months of the year. From 1958-1963 a family of 2 adults and 5 children lived in house without shortage of water (estimate of 500 gallons per day per capita consumption) and water was also available for and used for watering livestock, irrigation, watering lawn, vegetable garden, etc. Estimate of total annual consumption: 1 1/2 million gallons.

Signature of Owner Mitsuru J. Nakamura

Date Nov. 29, 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.

7725

344

213563

Copy

I received and filed this instrument for
 record on the 29th day of Nov. 1900
 at 11:30 o'clock A.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 MARTIN S. BEHNER, County Recorder
 By *Mart. S. Behner* Deputy
 Fee \$ 0.00 Paid

MISSOULA COUNTY RECORDS

File No.

T 12N R 19W

DUPLICATE

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 3 1968

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater JUN 1938

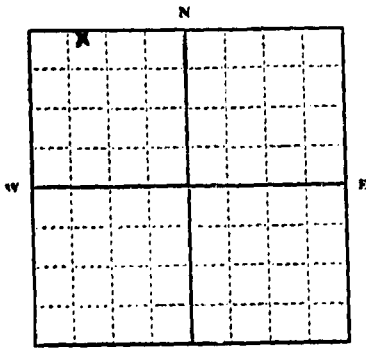
Owner R. D. McSweeney Address MISSOULA MONT

Contractor (if any) NONE

Address of Contractor

Date Started JUN 1938 Date Completed JUN 1938

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



NE 1/4 NW 1/4 Sec. 11 T. 12N R. 19W
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 12 Mo. use

estimates 35,000 gal. yearly as
SPRING is used for single family
use.

Signature of Owner R. D. McSweeney

Date 12/31/63

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

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

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

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