

1/10
WALDORF HOERNER MISSOULA, MONTANA
wh PAPER PRODUCTS COMPANY

April 18, 1966

Office of State Engineer
Helena, Montana

Gentlemen:

Enclosed is the duplicate of a Notice of Appropriation
of Groundwater.

Very truly yours,

WALDORF-HOERNER PAPER PRODUCTS COMPANY

W. C. Hodge
W. C. Hodge

WCH:wo

Enclosure

STATE WATER CONSERVATION BOARD

APR 28 1966

| | |
|----------|-----------|
| Bliss | McDonnott |
| Butcher | Ministry |
| Coyle | Montan |
| Dejinton | Sullivan |
| Dickert | |

PRODUCERS OF HIGH QUALITY KRAFT LINERBOARD AND PULP

File No. _____

T. 14N R. 21W

DUPLICATE

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater
Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

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

Top of Ground Approx. 3088 ft.
(Elev. above sea level)

Formations Log:

- 0 - 1 1/2 Black dirt.
- 1 1/2 - 3 1/4 Tan sandy clay mixed with gravel and cobblestones.
- 3 1/4 - 63 Fine dark gray and tan silty sand.
- 63 - 91 Coarse brown sand and tan clay in alternate layers.
- 91 - 105 Fine brown sand with few scattered gravels.
- 105 - 113 Fine silty sand and some clay mixed with gravel.
- 113 - 115 Coarse sand and gravel with cobblestones mixed in. Water.

Owner Hoerner Waldorf Corp. Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed.

Date well started 7/25/69 Date completed 7/29/69

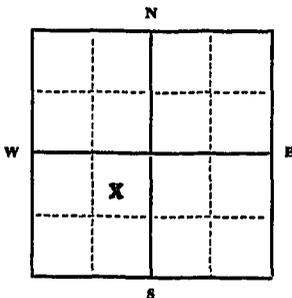
Type of well Drilled Equipment used Cable tools
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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

| 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 1/4" | 0 | 113 | N | O | N |

Water rises in well 13 feet from surface.



Static Water Level for non-flowing well 13 feet.

Shut-in Pressure for Flowing Well None

Pumping Water Level 63 feet at +100 gal. per minute.

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

How Tested Air Lift Pump

Length of Test 5 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through the open bottom of six inch casing. Wells in this area

NE 1/4 SW Sec 25 T. 14N R. 21W
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

can be depended upon to produce clear sand free water year after year as long (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 well 115'

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 J. Cohen
Driller's Signature.

MISSISSIPPI
I hereby certify that the following is a true and correct copy of the original as filed in my office on the 15th day of July, 1967.

MISSISSIPPI
DEPARTMENT OF REVENUE

MISSISSIPPI
DEPARTMENT OF REVENUE
I hereby certify that the following is a true and correct copy of the original as filed in my office on the 15th day of July, 1967.

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

1930
28-4538

I received and filed this instrument for record on the 15th day of July, 1967, at 8:30 o'clock P. M., permanent files of Mississipi County, State of Montana.
Witness my hand:
Verance R. Ciguse, County Recorder
By *[Signature]*, Deputy
Fee \$ 2.00 Paid *[Signature]*

RECEIVED
MONTANA WATER RESOURCES BOARD
SEP 15 1969

File No. _____

STATE WATER CONSERVATION BOARD

T. 14N R. 21W

DUPLICATE

OCT 7 1966

County Missoula

LOG By McDermott STATE OF MONTANA
MONTANA ADMINISTRATOR OF GROUNDWATER CODE
Darlington Sullivan OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level 3088')

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 - 1/2 Black dirt.
- 1/2 - 17 Fine sand and large gravel mixed.
- 17 - 28 Fine silty gray sand.
- 28 - 31 Gray sand and coarse gravel.
- 31 - 49 Fine to gray brown silty sand. Few scattered gravels.
- 49 - 57 Brown silty sand-fine. Few scattered gravels.
- 57 - 78 Very silty brown sand with clay lenses.
- 78 - 84 Cleaner slightly coarser brown sand with some gravel.
- 84 - 90 Brown clay.
- 90 - 94 Gravel imbedded in blue gray clay.
- 94 - 108 Fine brown silty sand.
- 108 - 115 Coarser cleaner brown sand. Few scattered gravels. Some fine mica mixed in.
- 115 - 131 Coarse gravel mixed with very fine brown to gray sand. Some fine mica mixed in.
- 131 - 134 1/2 Boulders & cobblestones. Some very fine brown sand.
- 134 1/2 - 144 Fine tan to brown sand mixed with coarse gravel.

Owner Waldorf - Hoerner Paper Products Co. Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater 4/19/66

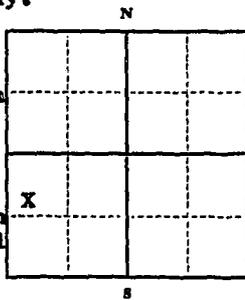
Date well started 3/28/66 Date completed 6/25/66

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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

| Size of Drilled Hole | Size and Weight of Casing | From (Feet) | To (Feet) | PERFORATIONS | | |
|----------------------|---------------------------|-------------|-----------|--|-------------|-----------|
| | | | | Kind Size | From (Feet) | To (Feet) |
| 18" | 18" OD x .375 | +1/2 | 119 1/2 | 18" telescope size Johnson close rodded Armco Iron Well Screen | 116 | 146 |
| | | 146 | 162 | Tail pipe with a solid closed bottom | | |



Static Water Level for non-flowing well 511.0M feet.

Shut-in Pressure for Flowing Well Non-f Pumping Water Level 221.1" feet

at 2000 gal. per minute.

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

How Tested Pump-Test

Length of Test four hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) An 18-inch

telescope size Johnson close

rodded Armco Iron Well Screen

is set from 116 feet to 146

feet. The slot openings are as follows:

(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).

Pulp and Paper Mill

Show exact depth of bottom.

Bottom of hole 162'

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 J. Stone
Driller's Signature

Formation Log & Remarks continued on reverse side

41,488

157 254487

I received and filed this instrument for record on the 5 day of Oct. 1966 at 12:00 o'clock P.M. permanent files of Missoula County, State of Montana Withers by hand. Vermin H. Curtis, County Recorder By J. M. Conway, Deputy Fee \$2.00 Paid

- 144 - 148 Very fine blue - gray sand mixed with gravel and cobblestones.
- 148 - 162 Fractured green argillite.

- 116 - 117 - 40/1000 slot
- 117 - 118 - 60/1000 slot
- 118 - 129 - 120/1000 slot
- 129 - 142 - 50/1000 slot
- 142 - 146 - 30/1000 slot

The screen is fitted with a tightly swaged lead packer top and a 15 foot tail pipe with a solid closed bottom. All water entering well is coming through the slots in this screen.

Development Log:

Well was initially developed with a solid block surge, a valved surge and sand pump until gravel pack was built up around screen and formation stabilized. Development was then completed by surging and pumping with compressed air. During the air development phase well was pumped in excess of 4000 gallons per minute.

Water Log:

Well produced 2000 gallons per minute of clear sand free water with 16'3" of drawdown on a four hour pump test. At completion of test well recovered immediately to within nine inches of static water level. In thirteen minutes well was fully recovered. The specific capacity of well at completion was 120 gallons per minute per foot of drawdown. Static level at completion of well was 5'10" from top of casing.

Water Rises in the well 5'10" from surface

File No.

STATE WATER CONSERVATION BOARD

T. 14N R. 21W 25

DUPLICATE

SEP 20 1966

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground
(Elev. above sea level 3088 feet)

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Waldorf - Hoerner

Owner Paper Products Co. Address Missoula, Montana

Formations Log:

0 - 1 1/2 Black dirt.
1 1/2 - 6 Gravel & cobbles
with some tan silt mixed in.

6 - 34 Tan to gray silt mixed & cobbles.

34 - 63 Fine dark gray & brown silty sand with lenses of tan silty clay.

63 - 86 Coarse brown sand & tan clay in alternate layers.

86 - 91 Water in sand stratas. SWL 7'1" Fine brown sand with very few scattered gravels. Water. SWL 7'1"

91 - 93 Clean coarse gravel. Water. SWL 7'1"

93 - 106 Tan to gray clay.

106 - 114 Fine sand, mica, silt & some clay mixed with coarse gravel. Cleaned up good in sump but made mud when drilled ahead. SWL 8'5"

114 - 141 Fine sand & coarse gravel. Cleaner with higher percentage of gravel & cobbles. Some clay showing. SWL 8'5"

141 - 142 Fine sand, Show exact depth of bottom.

Driller Liberty Drilling Co. Address Missoula, Montana
Date of Notice of appropriation of groundwater 4/19/66
Date well started 4/27/66 Date completed 8/18/66

Type of well Drilled Equipment used Cable Tools
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)
Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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

| Size of Drilled Hole | Size and Weight of Casing | From (Feet) | To (Feet) | PERFORATIONS | | |
|----------------------|---------------------------|-------------|-----------|---|-------------|-----------|
| | | | | Kind Size | From (Feet) | To (Feet) |
| 18" | 18" OD x .375 | +3 | 114 | 18" telescope size Johnson close rodded Armo Iron Well Screen | 113 | 140 |
| | | 140 | 160 | Tail pipe with a solid closed bottom | | |

Static Water Level for non-flowing well 8'5" feet.

Shut-in Pressure for Flowing Well Non-F
Pumping Water Level 29'6" feet
at 2000 gal. per minute.

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

How Tested Air Lift Pump
Length of Test 41 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) An 18 inch telescope size Johnson close rodDED Armo Iron Well Screen is set from 113 to 140 feet. The slot openings are as follows:

(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).

Pulp & Paper Mill

Bottom of hole 160'

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. Deane
Driller's Signature

10/11/1919

Formation Log contd.

141 - 142 gravel & broken rock mixed in tan clay. SWL 8'5"
142 - 160 Rock, Gray limestone. SWL 8'5"

Remarks contd.

113 - 116 - 60/1000 slot
116 - 119 - 80/1000 slot
119 - 140 - 90/1000 slot

The screen is fitted with a tightly swaged lead packer top and a 20 foot tail pipe with a solid closed bottom. All water entering the well is coming through the slots in this screen.

Development Log:

Well was initially developed with a solid block surge, a valved surge and sand pump until gravel pack was built up around screen and formation stabilized. Development was then completed by surging and pumping with compressed air. During the air development phase well was pumped in excess of 4000 gallons per minute.

Water Log:

Well was pumped at rates exceeding 4000 gallons per minute during development phase with compressed air. While accurate draw-down readings are not obtainable using this method of pumping all indications are that this well will produce 2000 gallons per minute with less than 20 feet of drawdown from static water level, recovered immediately to within one foot of static level and was fully recovered twenty minutes after pumping was stopped. Static water level at completion of well was 8'5" from surface.

Water rises in well 8'5" from surface.

10/11
253920

| | |
|---------------------------------------|----------------|
| I received and filed this testimony | |
| record on the 15 day of Sept. 19 | |
| at 2:00 o'clock A. M. permanent files | |
| of Missoula County, State of Montana | |
| Witness my hand: | |
| Vernon R. C. Quee, County Recorder | |
| By <i>Ed. J. Jackson</i> , Deputy | |
| Fee \$ <i>2.00</i> | Paid <i>at</i> |

File No. _____

DUPLICATE

148-21W
County Missoula

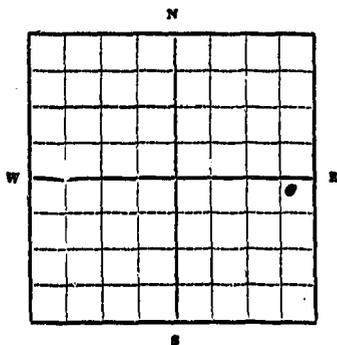
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 3 1963

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

STATE ENGINEER

1. Richard E. Watkins (Name of Appropriator), of Route 2 Missoula (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec 25 T4N R21W

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 _____

Approximate date 1920 continuous use

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

700 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 _____

Not used for irrigation

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

Shallow well pump

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

About 1920

8. The depth of water table _____

About 10 feet to static water 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 _____

110 feet at 5" diameter steel casing

10. The estimated amount of groundwater withdrawn each year _____

1 acre foot

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

Not available

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

Signature of Owner Richard E. Watkins

Date Nov 13 1963

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

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

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

339

213494

[Handwritten signature]

I received and filed this instrument for record on the 27 day of Nov 1962 at 8:20 o'clock A.M., permanent files of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By *Ethel Lane* Deputy
Fee \$ 2.00 Paid

2502

33332

I received and filed this instrument for record on the 14th day of June, 1923, at 10:45 o'clock A. M., permanent files of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By M. W. Conroy Deputy
Fee \$ 2.00 Paid 18

2561

334 280

I received and filed this Instrument for
 record on the 29th day of June 1973
 at 11:44 o'clock A. M. permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Dorothy L. Head, County Recorder
 By M. M. Cunningham Deputy
 Fee \$2.00 Paid cash

ESTIMATED COUNTY OF MISSOULA

and Agency

MISSOULA COUNTY, MONTANA

36

File No. _____

T. 14 R. 21

DUPLICATE

County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963

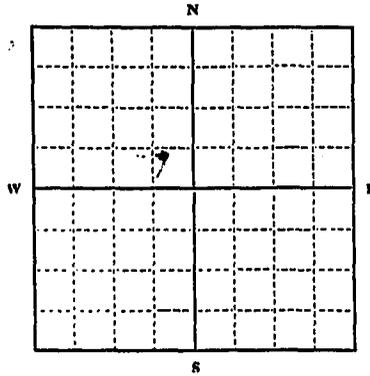
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Deloyd H. Emery, of Pt 2 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:



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

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 600 gal.

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric pump 1 hp.

N.W. 1/4 Sec. 36 T. 14 R. 21

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1947

8. The depth of water table 14 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 drilled 2.3 ft. with casing

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

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

Signature of Owner Deloyd H. Emery
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.

20392

1273

Copy
of this document for
Dec 1963
Permanent file
State of Montana
County Recorder
By *[Signature]* Deputy
Paid

36

File No. _____

T. 14^N R. 21^W

DUPLICATE

County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963

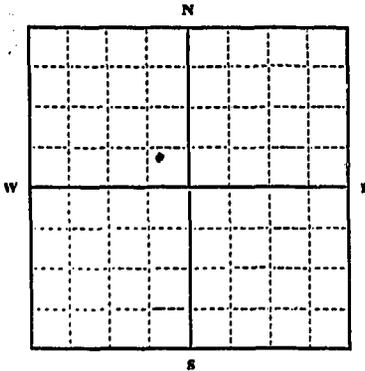
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Lloyd Hemmery of Pt. 2 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:



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

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

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric pump 1 hp.

N.W. Sec 36, T. 14, R. 21

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1947.

8. The depth of water table 12 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 diag 14 ft.

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

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 none

Signature of Owner Lloyd Hemmery

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.

20355

1236

Copy
I received one *copy* instrument for
record on the *31st* Dec. 19*63*
at *715* office permanent files
of Missoula County, State of Montana
Witness my hand
By *Harold S. Behrens* County Recorder
Fes *2* Paid

MISSOULA COUNTY RECORDS DEPARTMENT
MISSOULA, MONTANA

2564

334283

I received and filed this instrument for
record on the 29th day of June 1973
at 11:50 o'clock A.M., permanent files
of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By M. M. Crumley, Deputy

Fee \$ 2.00 Paid ✓

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

County Missoula ³⁶

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.

(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 Jessie B. Peterson A. Landon
Address Rt. 2, Muller Rd. Missoula, Montana 59801
Date well started Aug 26, 1969
completed Aug 26, 1969

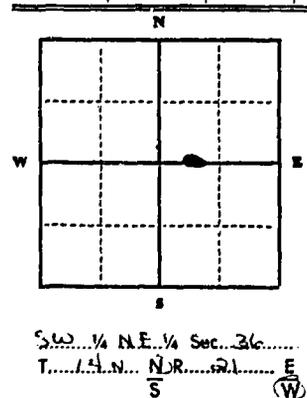
For Administrator's Use
File 2562, 334282
June 29, 1979
GW 1 11:48 P.M.

Type of well Rotary
(Dug, driven, bored or drilled)
Equipment used Rotary
(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" | 4" x 4.38 | +2 | -40 | 3/16 x 6" | 34 | -40 |



Static water level 16 ft.*
Pumping water level 40 ft.*
at 80 gallons per minute,
measured minutes after pumping
began.
*Measured from ground level.
Well developed by _____
for hours _____
Power 320 Pump 1 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff) _____

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

Driller's Signature [Signature]
Driller's Address the well

| Top of Ground | | (Elev. above sea level) |
|---------------|-----------|-------------------------|
| From (Feet) | To (Feet) | |
| 0 | 8 | Top Soil |
| 8 | 16 | Static Water |
| 8 | 17 | Sand Gravel |
| 17 | 21 | Clay |
| 21 | 40 | Sand Gravel |

_____ Show exact depth of bottom

_____ LICENSE NO. _____

2563

334282

I received and filed this Instrument for
record on the 29th day of June 1923
at 11:42 o'clock A. M. in the files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By M. M. Conroy, Deputy
Fee \$ 2.00

2509

333 599

I received and filed this instrument for
record on the 19 day of June, 1973
at 5:00 o'clock PM, permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. H. ed, County Recorder
By Marie Schellley, Deputy
Fee \$ 2.00 Paid 1

C. 111

2562

334281

I received and filed this Instrument for
record on the 29th day of June 1973
at 11:46 o'clock A. M. permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By M. M. Conway Deputy
Fee \$ 2.00 PH

MISSOULA COUNTY RECORDS DEPARTMENT
RECEIVED
JUN 29 1973
MISSOULA, MONTANA

RECEIVED

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

File No. JUL 3 1973

T. R. County Missoula

DUPLICATE

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION STATE OF MONTANA

334378, 2581 ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

6-29-73

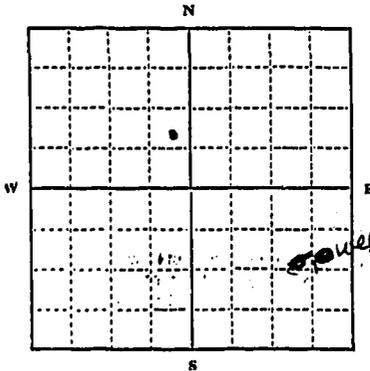
4:26 p.m.

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Mr. Joe Marian Sullivan of Rt. 2, Grass Valley 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 1/4 Sec 36 T. 14 N. R. 21 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.....

3. Date or approximate date of earliest beneficial use; and how continuous the use has been July 24 - 1952 continuous

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric 1/2 H.P. pumps

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater July 24 - 1952

8. The depth of water table 9 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Well is 28 ft. 4 in. well and casing and gravel 14-11 5-6 2 1/2 7-5 1/2. Used recessed collar for shale rods 50' of casing.

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

11. The log of formations encountered in the drilling of each well if available Information only for this as far as I know

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 is on tract 9 of Book of Deeds 207 page 222

Signature of Owner William Sullivan

Date.....

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

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

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

55309

#2581

334378

I received and filed this instrument for
record on the 29th day of June 1973
at 4:25 o'clock P. M., permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By C. J. Harper Deputy
Fee \$ 2.00 cash Paid

#2578

334 375

I received and filed this instrument for
record on the 29 day of June 1973
at 2:20 o'clock P. M., permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By Courtenay Slaves, Deputy
Fee \$ 3.00 Paid

55

MISSOULA COUNTY, MONTANA
RECORDS DEPARTMENT
RECEIVED
JUN 29 1973
MISSOULA, MONTANA

FD577

334376

I received and filed this instrument for
record on the ~~25~~ day of ~~June~~ 1973
at ~~4:25~~ o'clock ~~P.~~ M., permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By ~~Carol Ann~~ Deputy
Fee \$2.00 ~~0.00~~ Paid

MISSOULA COUNTY RECORDER
MISSOULA, MONTANA

| | |
|------------|---------|
| SEARCHED | INDEXED |
| SERIALIZED | FILED |

#2517

334374

I received and filed this Instrument for
record on the 29 day of Jan 1953
at 9:15 o'clock P. M., permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By [Signature] Deputy
Fee \$ 2.00 cash Paid

File No. _____

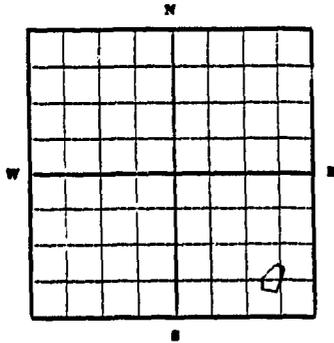
DUPLICATE

T. 14 N R. 21 W ³⁶
County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
SEP 11 1963
STATE ENGINEER

1. William J. Sullivan of Route #2 Grass Valley 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:



1/4 Sec 36 T. 14 R. 21
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 April 3, 1951 daily
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 500 a 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 not available
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal well-electric pump southeast of section 36 township 14 N. R. 21 West

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater April 3, 1951
- 8. The depth of water table about 8 feet
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 28 feet deep 4 inch casing
- 10. The estimated amount of groundwater withdrawn each year 172,500
- 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 not available

Signature of Owner William J. Sullivan
Date 9-10-63

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.

#260

210610

I received and filed this instrument for
 record on the 1 day of Sept 1963
 at 10:00 o'clock A.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 MARTIN S. BEHNER, County Recorder
 By [Signature] Deputy
 Fee \$ 0.00 Paid

THIS INSTRUMENT HAS BEEN RECORDED IN THE COUNTY
 RECORDS OF MISSOULA COUNTY, MONTANA, BOOK 107, PAGE 107.

RECORDED IN THE COUNTY RECORDS OF MISSOULA COUNTY, MONTANA, BOOK 107, PAGE 107.

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GROUNDWATER INDEX

County Missoula

Twp. 14 N

Rge. 20 W

| Sec. | Name of Appropriator | Type of Form | County File No. | Remarks |
|------|---------------------------|--------------|-----------------|-------------------|
| 4 | Deschamps, Caspard | MW 3 | 212833 | |
| 4 | Robbins, Leslie P | MW 2 | 259660 | |
| 5 | Deschamps, G. W. | MW 3 | 212831 | |
| 7 | Deschamps, Alfred E. | MW 4 | 1196 | |
| 7 | Hamel, Flavre & Blanche | MW 3 | 211885 | |
| 7 | Hamel, Flavre, Blanche | MW 3 | 211886 | |
| 7 | Hamel, Paul | MW 3 | 1258 | |
| 7 | Montana Highway Dept. | MW 2 | 300621 | |
| 8 | Deschamps, G. W. | MW 3 | 212854 | |
| 8 | Lucier, Dorille & Lema | MW 3 | 215510 | |
| 8 | Lucier, Dorille & Lema | MW 3 | 215512 | |
| 8 | Sunset West One | MW 2 | 329110 | |
| 8 | Sunset West One | MW 2 | 329111 | |
| 8 | Sunset West One | MW 2 | 328184 | |
| 9 | Lackner, Claude | MW 2 | 1237 | |
| 9 | Lackner, Doreen | MW 4 | 1238 | |
| 10 | Johnson, Jesse Avenue | MW 3 | 214781 | |
| 10 | Johnson, Jesse A & Eugene | MW 3 | 214780 | |
| 10 | Johnson, Jesse A & Eugene | MW 4 | 214779 | |
| 10 | Weaver, Greg | 19572ag | 186435 | |
| 13 | Dougherty, Mary Ann | MW 3 | 215502 | |
| 14 | Ing, Richard W. | MW 2 | 307171 | |
| 17 | Whil Reality | MW 2 | 334093 | |
| 18 | Deschamps, Alfred | 19572og | 151669 | |
| 18 | Deschamps, Alfred E. | MW 4 | 1259 | |
| 18 | Deschamps, Alfred G. | MW 4 | 1260 | |
| 19 | Lecasse, Leo | MW 4 | 248319 | |
| 20 | Cummings, Robert | MW 2 | 302382 | |
| 20 | Missoula Cartage Co. Inc | MW 4 | 215193 | |
| 20 | Missoula Sun Club | MW 2 | 257033 | |
| 20 | Williams, Waldo | MW 2 | 264069 | |
| 20 | Williams, Waldo | MW 2 | 276069 | |
| 21 | Lucier, Armand J. | MW 4 | 215136 | |
| 21 | Missoula Cartage Co. Inc | MW 4 | 215193 | see above sec. 20 |
| 21 | Williams, Dennis W. | MW 2 | 310108 | |
| 21 | Williams, Waldo W. | MW 2 | 292304 | |
| 22 | Hamel, Paul | MW 3 | 1257 | |
| 24 | McClure, Howard | MW 2 | 294523 | |
| 25 | Raser, Howard | MW 3 | 216601 | |
| 25 | Raser, Howard | MW 3 | 216597 | |
| 26 | Raser, Howard | MW 3 | 216598 | |
| 26 | Raser, Howard | MW 3 | 216599 | |
| 26 | Montana Power Co | MW 2 | 325135 | |
| 26 | Montana Power Co | MW 1 | 325136 | |
| 27 | Annas, Robert B. | MW 2 | 334275 | |
| 28 | Aune, Peter O. | MW 2 | 283374 | |

D
C
B
A

| Name of Appropriator | Type of Form | County File No. | Remarks |
|--------------------------------------|--------------|------------------|---------|
| Aune, Peter C | MW4 | 1137 | |
| Aune, Peter C. (estate) | MW2 | 303103 | |
| Elite Concrete products | MW2 | 252042 | |
| Scudder's mobile hwy | MW2 | 267182 | |
| Dickson A.P | MW4 | 24870 | |
| Watkins, Richard E | MW4 | 213495 | |
| Watkins, Richard E | MW4 | 213496 | |
| Cronce, Charles C | MW3 | 280416 | |
| Crouse, Charles C. | MW2 | 271690 | |
| Johnson, Harold | MW2 | 290413 | |
| Jones, Ray & Corde | MW2 | 293097 | |
| Finney William L. | MW4 | 24161 | |
| Finney, William L. | MW4 | 24162 | |
| Koehring, John Cayne (GW) | GW2 | 265639 | |
| LaVine, George J | MW4 | 215531 | |
| Rucier, Armond | MW2 | 334082 | |
| McDonald, C.M. | MW2 | 314276 | |
| McDonald, C.M. | MW2 | 314277 | |
| McDonald, dellante | MW2 | 293639 | |
| Praffer, Chester | MW2 | 295447 | |
| Procke, Chester | MW2 | 32727 | |
| Baird, Nelson W | MW2 | 306426 | |
| Gray, H. J. | MW4 | 215282 | |
| Finney, Louis F. | MW4 | 214890 | |
| Finney, Louis F. | MW4 | 215351 | |
| Finney, Louis F. | MW4 | 214887 | |
| Sol, Joe & Ruth | MW4 | 215110 | |
| Sol, John | MW4 | 215104 | |
| Watkins, Richard | MW4 | 213493 | |
| Doehring, W. | MW3 | 212835 | |
| Lee, Forrest W | MW4 | 210695 | |
| Boscurino, Sam & Hazel | MW2 | 311093 | |
| Hamel, Paul | MW4 | 1197 | |
| Hamel, Alyse D. | MW2 | 333547 OR 333548 | |
| Roulard, H. B. | MW2 | 334620 | |
| Carlyle, Marvin | MW2 | 215030 | |
| DeMat School Dist #20 | MW2 | 24746 | |
| Goodman, Alvin F. | MW4 | 215141 | |
| Montana Power Co | MW2 | 276497 | |
| Montana Power Co. | MW1 | 276498 | |
| North Pacific Railway 1957 Log | | 181293 | |
| Thrasher, Bert E & Bude | MW4 | 215036 | |
| U.S. Forest Service | MW4 | 213858 | |
| U.S. Forest Service 1957 Log | | 146817 | |
| United States Forest Service GW2 | GW2 | 209659 | |
| Goodman Alvin F. | MW3 | 214535 | |

File No.

T. 14^N R. 20^W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 18 1963

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater.....

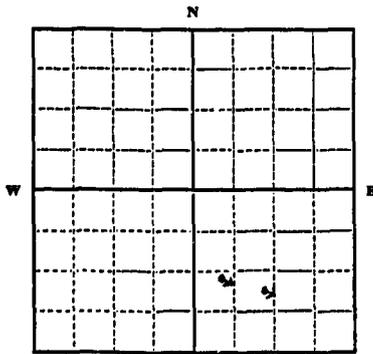
Owner GASPARD W. Deschamps Rt. 2, Missoula

Contractor (if any) NONE

Address of Contractor Does not Apply

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.....



.....1/4..... Sec. 4 T. 14 R. 20

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.....

Signature of Owner Gaspard W. Deschamps

Date 17 Nov 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.

#314

212833

I received and filed this instrument for
record on the.....day of.....
at 8:14 o'clock.....M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By *J. L. Latta* Deputy
Fees.....Paid

T. 14N R. 20W 4

County Missoula

STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater
 Appropriation by Means of Well
 DEVELOPED AFTER JANUARY 1, 1962

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

Leslie P. and

Owner Dorothy J. Robbins Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed.

Date well started 3/21/67 Date completed 3/25/67

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

Water use: Domestic Municipal Stock Irrigation
 Industrial Drainage Other

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

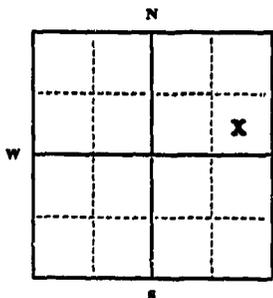
Top of Ground _____
 (Elev. above sea level 3425 f.t.)

Formations Log:

- 0 - 4 Black dirt with a few rocks mixed in.
- 4 - 11 Light tan silty clay with gravel, cobblestones, and broken rock mixed in.
- 11 - 23 Light brown clay with a few scattered gravels.
- 23 - 47 Small gravel and broken tan argillite. Seeps of silty water.
- 47 - 49 Broken rock (argillite) with clay in cracks and seams.
- 49 - 57 Gray rock (argillite).
- 57 - 85 Dark blue - gray rock (argillite). Water in cracks and seams 79 to 85 feet.

| 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 1/2" | +2 | 67'2" | N | O | N |

Doc. No. 287660
 Filed _____
 this 24 day of MARCH
 A.D. 1967, at 10:15
A.M.
 Water rises in well
 21 feet from surface.



Static Water Level for non-flowing well _____
21 feet.

Shut-in Pressure for Flowing Well None
 Pumping Water Level _____
73 feet
 at _____
10 gal. per minute.

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

How Tested Air Lift Pump
 Length of Test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through cracks and seams in the rock 79 to 83 feet.

MONTANA WATER RESOURCES BOARD
 RECEIVED

MAR 26 1970

Show exact depth of bottom.
 Bottom of well 85 ft.

SE 1/4 Sec. 4 T. 14N 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).

Portion of Lot 1 of the SE 1/4 of the NE 1/4 of section 4, Township 14N Range 20W, Principal Meridian, Missoula County, Montana. APPROX. 8.59 ACRES.

52

Driller's License Number

William F. Osburn
 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, tissue copy to be retained by driller.

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

46269

1965 289660

I received and filed this instrument for
record on the 24 day of March, 1970
at 10:15 o'clock A.M., permanent files
of Missoula County, State of Montana
Witness my hand
Veronica R. Crouse, County Recorder
By J. L. [Signature] Deputy
Pee S. [Signature] Paid

MISSOULA COUNTY
RECORDERS OFFICE
MONTANA
RECORDED
INDEXED
MAY 1970
- 5116 XAC 70

File No.

T. 14 R. 20

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 18 1963

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Not known

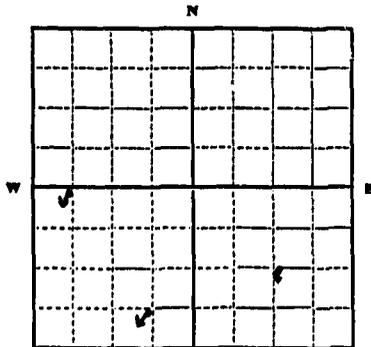
Owner G. W. Deschamps Address Rt. 2 Missoula

Contractor (if any) None

Address of Contractor None

Date Started None Date Completed None

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



1/4 Sec. 5 T. 14 R. 20

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 constant

~~use, quantity not known~~

Signature of Owner [Handwritten Signature]

Date 12/1/63

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.

4312

212831

I received and filed this instrument for
record on the 12 day of July, 1963
at 8:10 o'clock A.M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By [Signature] Deputy
Fees 2.00 Paid

File No. _____

T. 14N R. 20W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 3 1964
STATE ENGINEER

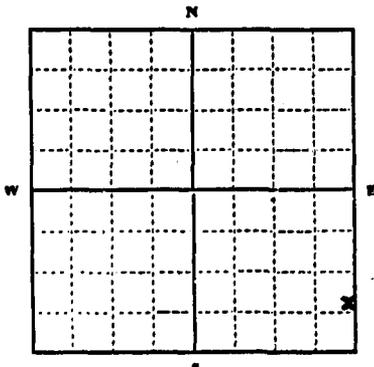
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, Alfred E. Deschamps, of Rt. 2, 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:



2. The beneficial use on which the claim is based
Domestic, lawn and garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
May 1956 continuous

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
3-h.p. electric motor and pump

SE 1/4 Sec. 7 T. 14 R. 20

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
May, 1956; commenced and completed

8. The depth of water table
'61 Aug./ 97 feet Oct. '62 - 45 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
6 inch casing, 202 feet deep

10. The estimated amount of groundwater withdrawn each year
350,000 gallons

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

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

Signature of Owner Alfred E. Deschamps

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.

20315

GW 3

File No.

DUPLICATE

SW

T. 14 R. 20

County Missoula

RECEIVED
OCT 15 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)

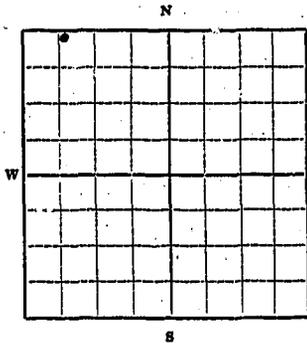
Date of Appropriation of Groundwater 1880
Owner Flore Hamel and Blanche Hamel Address Frenchtown, Montana

Contractor (if any) None

Address of Contractor None

Date Started 1880 Date Completed 1880

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



immediately north of the section line on property belonging to Victor Loisel. Appropriation was made of the overflow from said spring by means of a rock casing, 2 inch pipe which runs the water into a metal trough.

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 year around for watering cattle except during extreme cold weather.

NW 1/4 NW Sec. 7 T. 14 R. 20
Indicate point of appropriation and place of use, if possible.

Signature of Owner Flore Hamel
Blanche Hamel
Date October 7, 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.

286

211885

I received and filed this instrument for
record on the 11th day of Oct. 1963
at 2:50 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By *[Signature]*, Deputy
Fee \$ 2.00 Paid

7
C

5
10
15

GW3

File No.

DUPLICATE

SW

T. 14 R. 20

County Missoula

RECEIVED
OCT 15 1963

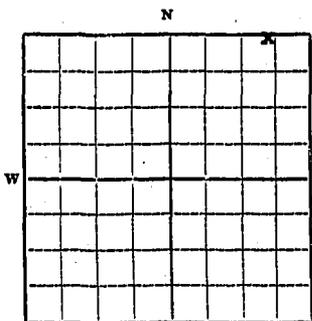
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1880
Flore Hamel,
Owner Blanche Hamel Address Frenchtown, Montana
Contractor (if any) None
Address of Contractor None
Date Started 1880 Date Completed 1880



Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. rocked casing around springs, then water is piped in 2 inch pipe to metal troughs nearby.
Excess runs down draws in pasture.

NE 1/4 NE Sec. 7 T. 14 R. 20

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 Used year around.

Signature of Owner Flore Hamel
Blanche Hamel
Date October 7, 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.

287

211886

I received and filed this instrument for
record on the 11th day of Oct. 1963
at 2:10 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By *Wesley C. ...* Deputy
Fee \$ 2.00 Paid

GWs

File No.

DUPLICATE

T. 14N R. 20W

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 1985

Owner Paul Hamel Address Ste 2, Missoula

Contractor (if any) None

Address of Contractor

Date Started 1985 Date Completed 1985

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

Used for watering livestock.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermit-

tent estimate approximate lengths of periods of use

15 miners inches runs out continuously.

used during pasture season continuously.

Signature of Owner Paul Hamel

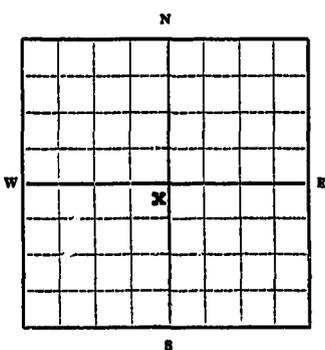
Date December 31, 1963

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.



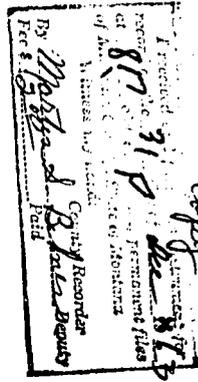
NE 1/4 Sec. 17 T. 14 R. 20

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

MISSOURI
14M 30M

1882
Paul Hamel
None
1882
1882

Used for watering livestock.
to drainage ditches.
open spring. Water runs out



1458

17 14 20

Used during pasture season continuously.
12 inches runs out continuously.

December 31, 1882

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

DRILLER'S LOG

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

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.

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 Montana Highway Dept.
Address Helena, Montana
Proj. 190-2(35) AB U-1
Date well started Feb. 7, 1971
completed Feb. 12, 1971

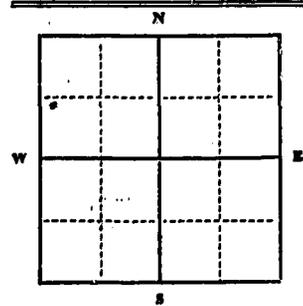
For Administrator's Use
File 300.621
MARCH 23, 1971
10:30 AM
GW 1

Type of well Drilled
(Dug, driven, bored or drilled)
Equipment used Churn Drill
(Churn drill, rotary or other)
Water Use: Domestic Municipal Stock Irrigation
Industrial Drainage Other Garden/Lawn

*Describe Weigh Station
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 Casings | From (Feet) | To (Feet) | PERFORATIONS | | |
|----------------------|----------------------------|------------------|-----------|--------------|-------------|-----------|
| | | | | Kind Size | From (Feet) | To (Feet) |
| 6" I.D. | 6" I.D. 19 lb per ft. | 4' above g.l. | 152' 6" | | | |



Static water level 122 ft.*
Pumping water level 123 ft.*
at 12 gallons per minute,
measured 1 minutes after pumping began.
*Measured from ground level.
Well developed by Foot Pump
for 3 hours.
Power Electric Pump 1 HP
Remarks: (Gravel packing, cementing, packers, type of shaftoff)

Lot 2 1/4 Sec. 7
T. 34 N. R. 20 S. 56 W.

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

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

Top of Ground No. 1 (Elev. above sea level) 3175±

| From (Feet) | To (Feet) | Description |
|-------------|----------------|--|
| | | <u>E. B. Weigh Station</u> <u>Frenchtown, Montana</u> |
| <u>0</u> | <u>5</u> | <u>Brown Clay & Gravel</u> <u>Boulders</u> |
| <u>5</u> | <u>120</u> | <u>Brown Clay & Gravel</u> |
| <u>120</u> | <u>151</u> | <u>Red Clay & Sand</u> <u>Gravel</u> |
| <u>151</u> | <u>152 1/2</u> | <u>Sand, Gravel & Water</u> |

LICENSE NO. 7

152 1/2 Show exact depth of bottom

2103 300621

I received and filed this instrument for
record on the 23rd day of March, 1977,
at 10:30 o'clock A.M., permanent files
of Missoula County, State of Montana
Witness my hand
Vernice R. Cross, County Recorder
By *M. Conroy* Deputy
Fee \$ 7.00 Paid

RECORDED
INDEXED
MONTANA
MISSOULA COUNTY

8

File No.

T 14 N R 20

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 18 1963

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater... Not known

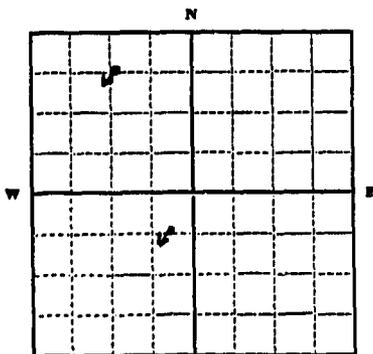
Owner... G. W. Deschamps Address... Route 2, Missoula

Contractor (if any) ... None

Address of Contractor ... Does not apply

Date Started... None Date Completed... None

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



..... 1/4 Sec. 8 T 14 R. 20

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... constant use

quantity not known

Signature of Owner... G. W. Deschamps

Date... 17 Nov 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.

7128

315

212834

I received and filed this instrument for
record on the 12 day of May, 1963
at 8:16 o'clock A.M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By Gaylene Hollister Deputy
Fee \$ 2.00 Paid

File No.

T. 14 N R. 20

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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Without Well

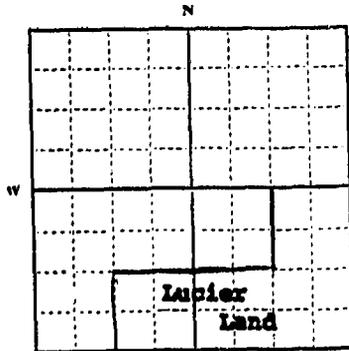
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater unknown at present time
Probably dates back to time of government patent.
Owner Dorille E. Lucier Address Rte. #2, Msla, Mont.
& Lena V. Lucier, husband and wife
Contractor (if any) not applicable

Address of Contractor not applicable

Date Started not applicable Date Completed not applicable

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. a regular spring which comes from the underground by natural pressures. The water is guided to a water tank by pipe which is placed approximately nine feet below ground level at point of the spring source. However, water from spring does come to ground surface.



East, West, South, North
Secs T.14 R.20

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. spring fills a 250 gallon tank approximately 10 times a day; therefore, spring produces approximately 2,500 gallons or more in 24 hours.

Signature of Owner D. E. Lucier
Lena V. Lucier

Date December 31, 1963

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

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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.

1035

215510

I received and filed this instrument for
record on the 31 day of Dec 1963
at 3:47 o'clock P. M., pursuant to Act
of Missoula County, State of Montana
Witness my hand.
MARTIN S. BARNER, County Recorder
By MARTIN S. BARNER, Deputy
Fee \$ 2.00