

GROUNDWATER INDEX

County Dandera Twp. 24N Rge. 31W

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
5	William H. Clark	LW 4	102286	
6	U.S.F.S. Karibau Natl Forest	LW 2	626	Copy attached
7	Claude L. & Janet E. Kuehn	LW 2	98999	
7	William Meyers	LW 2	700	
7	Wilbert Allen Reed	57 Well Log	93430	Copy attached
7	Wilbert Allen Reed	57 Well Log	93431	Same as above
7	Leah O. & Agnes Knorr	LW 2	640	
8	Alfred & Margaret Etienne	LW 2	121222	
8	Stanley Martin	LW 2	127080	
14	Wilbert & Florence Nismon	LW 3	207	
15	O. F. Steinerberger	LW 3	102320	
15	Jerome Windle	LW 3	102316	
16	Edwin S. Waycott	LW 2	125645	
17	Durable Wood prod. Co.	LW 2	704	Location plan attached
17	Northern Pacific Ry Co.	LW 4	132	Location plan attached
17	Water Service Inc.	LW 4	102393	
19	Mr. Chester Robbins	LW 4	429	
20	Arthur Heister	LW 2	124356	
21	H. Woodruff Fryer	LW 2	100485	
22	William B. Bessire	LW 4	451	
22	William B. Bessire	LW 4	452	Same as above
27	Edward E. Mass	LW 4	402	
27	John Patten	LW 2	103586	
30	Mr. Charles B. Robbins	LW 4	411	
30	Mr. Charles B. Robbins	LW 2	112570	Same as above
30	Charles B. Robbins	LW 4	117825	" " "
33	Nans Pedersen	LW 3	301	
33	Matt Pedersen	LW 3	302	
35	James R. Fisher	LW 3	428	
35	Cecil & Pearl E. Johnson	LW 3	516	
35	Cecil & Pearl Johnson	LW 2	102317	
35	Walter E. Johnson	LW 2	112433	
35	Charles Robbins	LW 3	418	Same as Dec 30
35	Charles Robbins	LW 4	419	Same as above
6	U.S.F.S. Karibau Natl Forest	57 Well Log	N/A	
	William & Hubert Kraus	LW 2	128547	
	Edwin Waycott	LW 2	940	Same as Dec 16.

File No.

T. 24^N R. 31^W S. 5

DUPLICATE

County Sanders

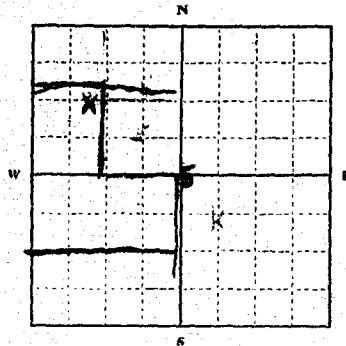
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 11 1963

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

1. William H. Clark (Name of Appropriator), of Swamp Creek Rd. Trout Creek (Address) (Town)

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



NW
SE 1/4 NW Sec 5 T24^N R31^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 & Stock

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

Constant Flow from Elec pump 1952

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

20 Gallons per minute

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

~~20 acres per minute~~

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

Wells as located, Electric Pump

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

1952

8. The depth of water table

16'

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

3 wells Concrete Block lined open bottom 6 in diameter 20 ft deep

10. The estimated amount of groundwater withdrawn each year

60,000 Gal

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

Clay thin sand to gravel 20' deep

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

Signature of Owner W. H. Clark

Date Dec 9, 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.

1107

107266

Indepd

I received and filed
 this instrument for record on the
 9 day of Dec
 1963 at 2:45 o'clock P
Harvey Walker
 County Recorder
 Fee 1.00

File No.

T. 24N R. 31W

DUPLICATE

County Sanders

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
APR 3 1964
STATE ENGINEER

Top of Ground
(Elev. above sea level. 2400'.....)
Approx. 2400'

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

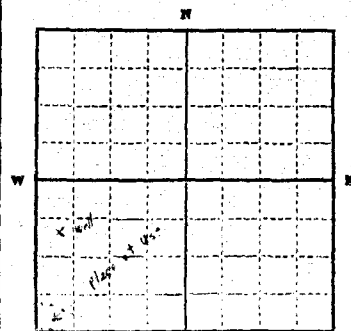
0 - 9 Tan silt and clay
9 - 88 Tan silt and clay with gravel and boulders imbedded
88 - 139 Tan silty sand and gravel. Water.
139 - 140 Tan clay with gravel imbedded.
140 - 148 Sand, gravel and boulders. Water.
148 - 172 Sand, gravel and cobbles. Water.
172 - 175 Gray silty clay. Gravel imbedded.
175 - 198 Sand and gravel. Water.
198 - 199 Gray silty clay. Gravel imbedded.
199 - 204 1/2 Sand and gravel. Water.

USFS Kankwa Natl. Forst
Owner: Trout Creek Ranger Dist. Address: Trout Creek, Montana
Driller: Liberty Drilling Co. Address: Missoula, Montana
Date of Notice of Appropriation of Groundwater: March 16, 1964
Date well started: 1/6/64 Date Completed: 2/6/64
Type of well: Drilled (dug, driven, bored or drilled)
Equipment Used: Cable tools (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.

All water encountered rose to 83' from surface.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8 inch	8 5/8" OD 24.5 # pr ft	+ 2'	204 1/2'	N	O	N



Map 1/4 Sec. 6 T. 24N R. 31W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.
Bottom of well 204 1/2 ft.

Static Water Level for non-flowing Well: 83 feet.
Shut-in Pressure for Flowing Well: non-flowing
Pumping Water Level: 84' 3" feet at 75 gal. per minute.
Discharge in gal. per min. of flowing well: non-flowing
How Tested: submersible pump Length of Test: 4 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) All water entering the well through the open bottom of the eight inch casing.

Driller's License Number
52
Driller's Signature
William F. Osborne

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.

35544

3. The
(date)
2. The President
County of
Propose
1. The President
County of
Propose
1. The President
County of
Propose

DUPLICATE
File No. *ND 672D*

675

I received and filed
this instrument for record on the

2nd day of April

1964 at 1:30 in P

Barthelme Jackson

By Erly Wood

File No.

T 24N R 31 W 6

DUPLICATE

County Sanders

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
APR 3 1964

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961) STATE ENGINEER

United States Forest Service

1. I, Kaniksu National Forest of Sandpoint, Idaho
(Name of Appropriator) (Address) (Town)
County of Bonner, State of Idaho, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is domestic use at Forest Service Campground at Trout Creek, Montana
(describe lands to be benefited, if for irrigation)

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

4. The annual period (inclusive dates) of intended use May 15th to Sept. 30th

5. The probable or intended date of first beneficial use May 31, 1964

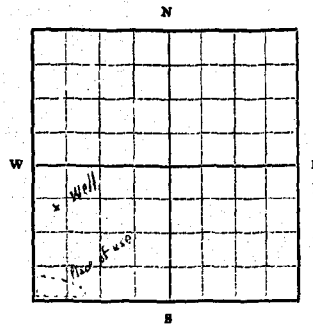
6. The probable or intended date of commencement and completion of the well* or wells*
Well started on 1-6-64 and completed on 2-6-64

7. The location, type, size and depth of well or wells contemplated A drilled, 8 inch, metal cased well, 204 1/2' in depth, has been completed.

8. The probable or estimated depth of the water table or artesian aquifer 88 feet

9. Name, address and license number of the driller engaged Liberty Drilling Co., Missoula, Montana, License Number 52.

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



N 1/4 SW 1/4 Sec. 6 T 24N R 31W

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

Signature of Appropriator J. D. Burke
Forest Supervisor

Date March 16, 1964

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

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

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

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

35545

626

In Date D

#626

I received and filed
this instrument for record on the

2nd day of April

1964 at 1:32 o'clock PM

Marilyn Adams
County Recorder

Fee 1.00 By

Lynne Wood, Dep

GW2

File No.

DUPLICATE

2112 - 311
T. R.
County Sanders

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Claude L. & Janet M. 1012 16th
Address: Bellingham, Wash.

Driller: Kane Water Well Drilling Address: Mo. Regis

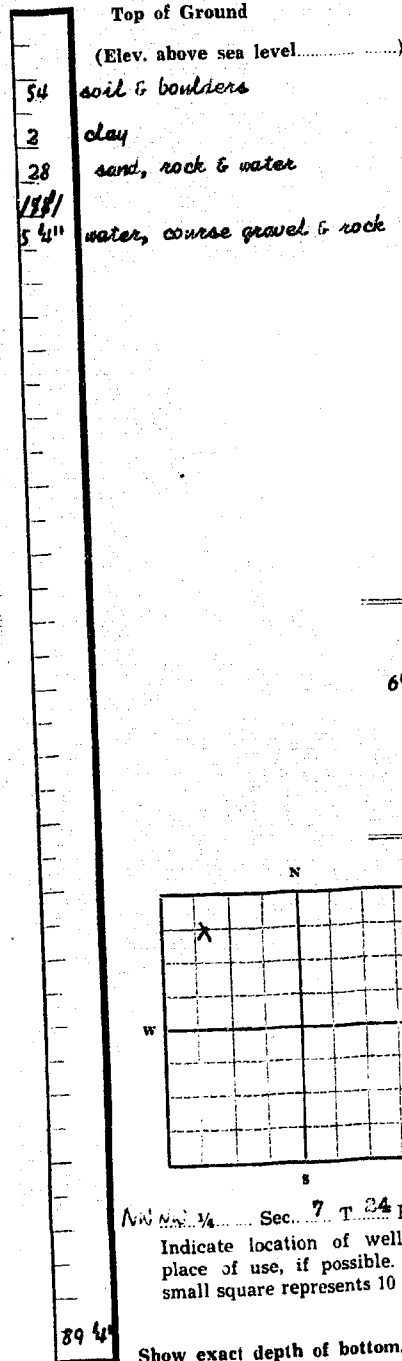
Date of Notice of Appropriation of Groundwater 5/23/62

Date well started 5/24/62 Date Completed 5/27/62

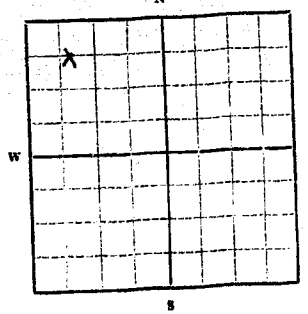
Type of well: drilled (dug, driven, bored or drilled) Equipment Used: churn drill (Churn, drill, rotary or other)

Water Use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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



Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	1 1/2"	0	89 1/4"	none	none	none



NW 1/4 Sec. 7 T. 24 R. 31
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 35 feet.

Shut-in Pressure for Flowing Well does not apply

Pumping Water Level 30 feet at 15 gal. per minute.

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

How Tested: bore pump Length of Test 2 hours

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

23
Driller's License Number

Cyril H. Kane
Driller's Signature

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

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

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

48

98999

received and used

this instrument for record on the

28th day of June

1962 at 4:15 o'clock P M

Dorothy Dodson

County Recorder

By Evelyn Wood
Notary

File No. 700 STATE WATER CONSERVATION BOARDT. 21N R. 31W

DUPLICATE

OCT 3 1966

County Sanders

LOG Site _____ McDermott _____

Butzer _____ McNulty _____

Coyle _____ Merlon _____

Darlington _____ Sullivan _____

Lusk _____

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level _____)

7' soil and gravel

25' boulders, sand and gravel

11' sand, gravel and water

11' boulder

36' 5" sand, gravel and water

Notice of Completion of Groundwater Appropriation by Means of Well

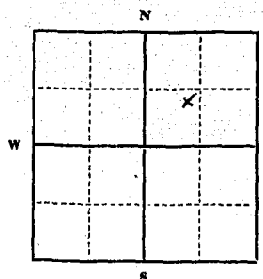
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner William Meyers Address Trout CreekDriller Kane Water Well Drilling Address St. RegisDate of Notice of appropriation of groundwater 8/2/66Date well started 9/9/66 Date completed 9/15/66Type of well drilled Equipment used skirt
(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" id	6"x .250	0	88' 8"	does not apply		

Static Water Level for non-flowing well 30 feet.Shut-in Pressure for Flowing Well XPumping Water Level 32 feet
at 20 gal. per minute.Discharge in gal. per min. of flowing well XHow Tested bailed and pumpedLength of Test til clear

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

S. 1/4 Sec. 7 T. 21N R. 31W

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).

88' 8" 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.

23

Driller's License Number

Ernest A. Kane
Driller's Signature.

41, 466

700

I received and filed
this instrument for record on the 29th
day of Sept 1966
at 3:15 o'clock P M

Dorothy Dodson
County Recorder

Fee \$1.00 By Dixie Knight
Deputy

RECEIVED

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. 24 N R. 31 W
County Sanders

WATER WELL LOG

Owner: Gilbert Allen Reed Address: Trout Creek Mont
 Driller: G. Allen Reed Address: _____
 Date Started: Aug 30 '58 Date Completed: July 26 '59
 Location: Sec. 7 T. 24 N R. 31 W 1/4 sec. Lot 5 S3 NW 1/4 - NE 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: _____ ft. to 59 ft. Type: welded steel 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: 28 feet
 Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)
 Pumping water level: _____ feet at 40 gal. per min.

How tested: Builder
 Length of test: 30 minutes

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
Pumping water level was not determined due to the type of test. But did have immediate recovery to static level.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
	62	Gravel, clay, bluish and kaolinitic formation - entire depth

73430

I received and filed
 the instrument to record on the
 _____ day of Sept
 1959 at _____ o'clock P. M
B. A. Smith
 County Recorder
 Fee 12.00

T. 24 N R. 31 W

County Sanders

RECEIVED

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

WATER WELL LOG

Owner *Wilbur Allen Reed* Address *Trout Creek Mount*

Driller *W. Allen Reed* Address

Date Started *Dec. 1, 56* Date Completed *April 12, 59*

Location: Sec. 7 T. 24 N R. 31 W 1/4 sec. *Lot 5-S3-NW 1/4-NE 1/2*

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: ft. to *132* ft. Type *enamel lined steel* 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: *30'* (See note on other side) feet.

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

Pumping water level feet at *100* gal. per min.

How tested: *Barlow*

Length of test: *1 hr.*

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

Pumping water level was not determined by this method of test. But it shows an immediate opening to the water table.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
132		Gravel, clay binder, with boulder formation the entire depth
<p>NOTE: The static water table as of June 1-1957 was 134 ft below the surface.</p> <p>Due to the liquidation of the More-Rapids Dam reservoir the water table came up to 30 ft from the surface.</p>		

Drilled
 21
 1957
 by
 61

11 95731

File No.

T. 24 N. R. 31 W

DUPLICATE

County Santer

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1964)

RECEIVED
STATE ENGINEER

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

9' clay & cobble gravel

54' sand, pebble & boulder gravel

8' water, sand & gravel

1' clay

44' water, sand & gravel
boulders

Owner Leslie O. & Agnes Vinson Address Trout Creek

Driller Fane Water Well Drilling Address Sta. 44

Date of Notice of Appropriation of Groundwater Jan. 1964

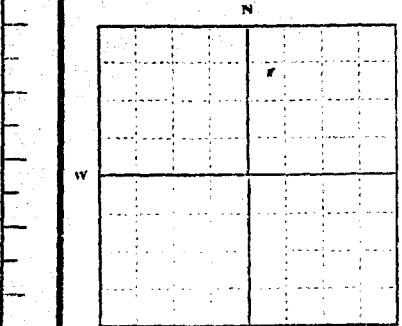
Date well started 7/21/64 Date Completed 7/23/64

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		
				Hole Size	From (Feet)	To (Feet)
6" id	6" id 19#	0	97 1/2	does not apply		



NW 1/4 NE Sec. 7, T. 24 N. R. 31 W.

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

97 1/2 Show exact depth of bottom.

Static Water Level for non-flowing Well 45 1/2 feet.

Shut-in Pressure for Flowing Well does not apply

Pumping Water Level 44 feet at 50 gal. per minute.

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

How Tested bailed & pumped Length of Test til clear

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

23
Driller's License Number

[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.

38332

640

INDEXED

I received and have

this instrument for record on the

23 day of July

1964 at 4:50 o'clock P.M.

Barthelme Adams

County Recorder

Fee 1.00

By

Lesley Wood Reg.

File No.

T. 24 R. 31

TRIPPLICATE

County Sanders

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)
Alfred H. Etienne

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

0'-34' Clay, Gravel, and
Boulders.

Owner Margaret Etienne Address Trout Creek Mt.

34'-59' Boulders, Sand, and
Gravel.

Driller William D. Lake Address Libby, Montana

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

59'-89' Sand, Gravel, with
Water.

Date well started April 28, 1969 Date completed May 3, 1969

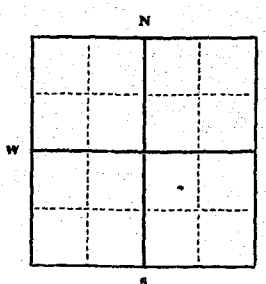
Type of well Drilled Equipment used Churn
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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.

Doc. No. 127-222
Filed for record
this 18 day of January
A. D. 1970, at Helena
Montana
Clerk A. M.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I. D.	6 5/8" O. D.	0	89			
	17.00 lbs. per foot					



Static Water Level for non-flowing well 59 feet.

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

Pumping Water Level 60 feet
at 15 gal. per minute.

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

How Tested Pump

Length of Test 1 Hour

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

SE 1/4 Sec. 8 T. 24 R. 31
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.

152
Driller's License Number

William D. Lake
Driller's Signature.

118012

793
INDEXED

121222

INDEXED
SERIALIZED
JAN 18 1971
FBI - MEMPHIS

I received and

this document is now a part of

file Jan 71
at 11:36 a

Devin Vaughn
County Recorder

By LL LL

Linda Brewer, Dep.

File No.

T. R.

DUPLICATE

County Sanders

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)



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

2' soil
18' gravel, sand, and cobblestone gravel
50' sand, gravel and water

Owner Stanley Mastin Address Front Creek

Driller Kane Water Well Drilling Address St. Regis

Date of Notice of appropriation of groundwater 10/10/67

Date well started 11/6/67 Date completed 11/9/67

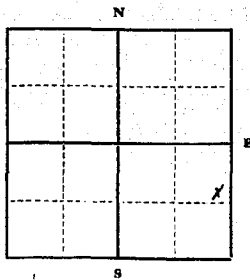
Type of well drilled Equipment used churn
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

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" id	6" x 280	0	80	does not apply		

Doc. No. 859, 127080
Filed for record
this 17th day of January
A. D. 19 73 at 2:42
o'clock P. M.



Static Water Level for non-flowing well 15 feet.

Shut-in Pressure for Flowing Well X

Pumping Water Level 17 feet
at 20 gal. per minute.

Discharge in gal. per min. of flowing well
X

How Tested bailed and pumped

Length of Test 3 hours

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

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

(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.

Driller's License Number 23

Driller's Signature Ernest J. Mastin

52262

127080

4

I received and filed

this instrument for record on the 17

day of Jan 1973

at 2:12 o'clock P

Regina Knight, Clerk & Rec.

County Recorder

Fee \$1.00

Lucie Hollister, Dep

GW 3

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

14

File No.....

T. 24 N. R. 31 W.

DUPLICATE

County SANDERS

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater.....

Owner: WILBERT + RENEVIBYE NIEMAN Address: TROUT CREEK

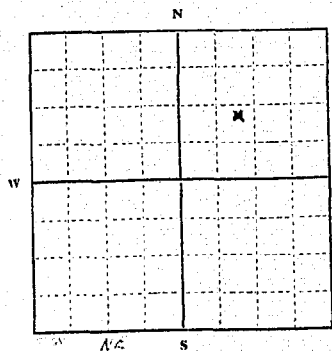
Contractor (if any)

Address of Contractor

Date Started: UNKNOWN Date Completed.....

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

PIPE FROM SPRING IN MOUNTAIN



NE 1/4 Sec 14 T. 24 N. R. 31 W.

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. UNKNOWN

Household use - surplus from spring runs off

Signature of Owner: Wilbert + Reneybye Nieman

Date: DECEMBER 23, 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.

15844

207
revised

I received and true
this instrument for record on the

23 day of Dec
1963 at 11:49 o'clock A.M.

Stanley Anderson
County Recorder

Fee 1.00

By
Evelyn Wood
Atty

File No.

T. 24 N. R. 31 W

DUPLICATE

County... Sanders

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 12 1963

STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater... 8-57

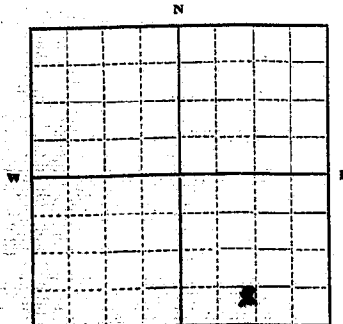
Owner... A. F. Gerstenberger Address... Trent Creek, Montana

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. Springs From Side of Hill



SW 1/4 SE 15 24 31
SW 1/4 SE Sec. 15 T. 24 R. 31

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.....

Domestic And some Irrigation

Signature of Owner A. F. Gerstenberger

Date... December 11, 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.

177

104320

Spilled

RECEIVED AND PAID

For investment for record on the

11 day of June

1943 at 2:00 o'clock P.M.

Merathy Madson

10102 By

Lucy Madson

V 3

File No.

DUPLICATE

T. 24 N R 31 W

County Sanders

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 12 1963

STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 5-57

Owner Jerome Windle Address Trout Creek, Montana

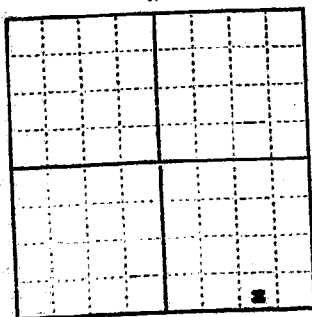
Contractor (if any)

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.

Spring from side of hill



SE 1/4 Sec. 15 T24 N. R. 31

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.

Domestic and some irrigation

Signature of Owner

Jerome S. Windle

Date 12-11-63

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.

173

102316

Subjunct

I received and filed
this instrument for record on the

11 day of Nov
1963 at 2:05 o'clock PM

Marathy Jackson
County Recorder

For 1.00 By
 Evelyn Wood Rip

RECEIVED County Sanders

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

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 Edwin J. Waybill
Address Box 1499
Great Creek Mont
Date well started unknown
completed unknown

For Administrator's Use	
File	<u>125645, 939</u>
	<u>6-29-73</u>
GW 1	<u>4:36 p.m.</u>

Type of well drilled Standard drill Rig
(Dug, driven, bored or drilled)

Equipment used _____
(Churn drill, rotary or other)

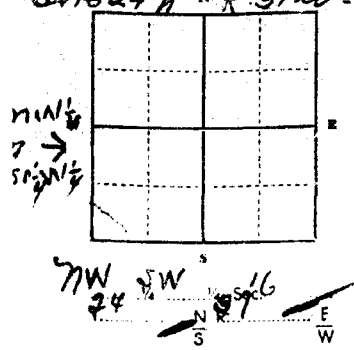
Water Use: Domestic Municipal Stock Irrigation
Industrial Drainage Other * Garden/Lawn

*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)
<u>6"</u>	<u>X</u>	<u>7</u>	<u>55</u>			

S 1/4 24 N R 31 20



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

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

Driller's Signature _____

Driller's Address _____

LICENSE NO. _____

Show exact depth of bottom

55920

939

128645

I received and filed
this instrument for record on the 29th
day of June 1973
at 4:26 o'clock P M
Lidia Vaughn
County Recorder
Fee 1.00 by
Linda Brown, Secy
NOT RECORDED

File No. 704

NOV 2 1966

T. 24 R. 31

DUPLICATE

LOG

State _____ McDermott _____
Subsoil _____ McHully _____ STATE OF MONTANA
County _____ SANDERS
Coyote _____ Mort _____ ADMINISTRATOR OF GROUNDWATER CODE
Darrington _____ Sullivan _____ OFFICE OF STATE ENGINEER
Dickert _____

Top of Ground
(Elev. above sea level _____)

8' sand and clay
38' cobblestone and sand
6' rock
28' gravel, coarse sand and water

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Durable Wood Products Co Address Trout Creek

Driller Kane Water Well Drilling Address St. Regis

Date of Notice of appropriation of groundwater 7/16/66

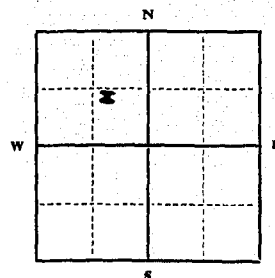
Date well started 7/22/66 Date completed 7/28/66

Type of well drilled Equipment used churn
(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" x .280	0	30	1/4 x 5	72	79



Static Water Level for non-flowing well 25 feet.

Shut-in Pressure for Flowing Well 2

Pumping Water Level _____ feet at _____ gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested _____

Length of Test _____

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

SE NW
1/4 Sec. 17 T. 24 R. 31
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).

80 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.

23
Driller's License Number

Engene M. Kane
Driller's Signature.

I received and filed
this instrument for record on the 1st
day of November 1966
at 2:40 o'clock P M

Kenneth Dodson
County Recorder
Fee \$1.00 By Paul S. Doty
Deputy

File No.....

T. 24W R. 31W

DUPLICATE

County Sanders

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

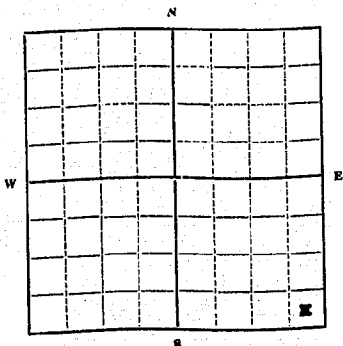
RECEIVED
NOV 27 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Northern Pacific Railway Co., of Trout Creek
(Name of Appropriator) (Address) (Town)
County of Sanders State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 SE Sec. 17 T 24W R 31W

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 purposes

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....
April 26, 1942 to present

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started Mar. 6, 1942 Completed April 26, 1942

8. The depth of water table 130 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 10 inch drilled well, 210 feet deep

10. The estimated amount of groundwater withdrawn each year Unknown, leased to Water Service, Inc.

11. The log of formations encountered in the drilling of each well if available see attached log 42

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

Northern Pacific Railway Company

By [Signature]
Superintendent

Date November 4, 1963

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

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

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

STATE OF WASHINGTON)ss
COUNTY OF SPOKANE)

N. M. Lorentzsen, having been duly sworn, deposes and says:
That he is of lawful age; that he is Division Superintendent of the Northern Pacific Railway Company and has his office and resides in the City and County of Spokane, State of Washington; that as Division Superintendent of said Northern Pacific Railway Company his territory embraces the town of Trout Creek, Sanders County, Montana; that the Northern Pacific Railway Company is the proprietor and claimant of the order and water right mentioned in the foregoing declaration of vested groundwater rights and the said N. M. Lorentzsen is authorized by the Northern Pacific Railway Company to execute on its behalf the foregoing Declaration of Vested Groundwater Rights; that as Division Superintendent of the Northern Pacific Railway Company and authorized to act on its behalf he has read and knows the contents of said foregoing notice and that the matters and things therein stated are true.

N. M. Lorentzsen

Subscribed and sworn to before me this 14 day of November, 1963.

Hart Snyder
Notary Public in and for the
State of Washington
Residing at Spokane, Washington

My Commission expires Nov 17, 1966

Montana 42
 7/8-42
 2/5-44
 Revised 2/15-45 Elev. changed to MP datum.
 Idaho, Div.

TROUT CREEK, MONT. - A.F.E. 561-41.
 Drilling begun Mar. 6, 1942.
 Completed Apr. 26, 1942.
 Total depth 210 ft.

Drilled by A.A. Durand & Son,
 Contractors, Walla Walla, Wash.

Water Analysis, 5/1-42 (as CaCO₃)
 Calcium Carbonate 4.8 G.P.S.
 Magnesium " 7.3 "
 Sulphate " 2.9 "
 Sodium chloride 9.7 "
 Sulphate " 2.1 "
 Silica " 1.5 "
 pH 7.5 "
 Total Hardness 15.0 " (Altimeter)
 Turbidity 15 ppm
 Iron as Fe 0.0 "

Test 5/42 Test 5/31-42
 Water level in Clarks Fork River 133'-El. 22350 128'-El. 22400
 Static water level in well 135'-" 22380 130'-" 22380
 W.L. while pumping 200 G.P.M. 143'-" 22250 143'-" 22250
 " " " 425 " 156'-" 22120 151'-" 22170
 " " " 350 " 163'-" 22050

Ground line of well = Elev. 23680 5/31-42 (Nipahum)
 5' Loose gravel and boulders.
 5' Loose gravel and little brown clay.
 5' Loose gravel and little sand.
 5' Pea gravel and sand.

13' Boulders and gravel

51' Coarse gravel

25' Fine pea gravel

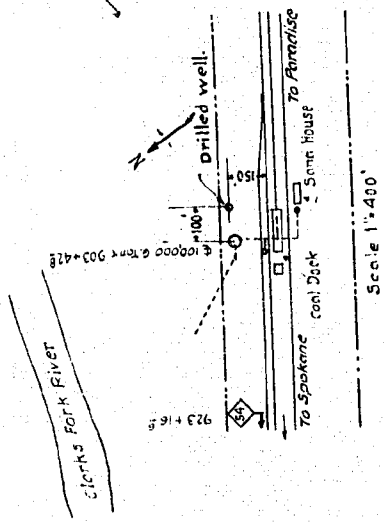
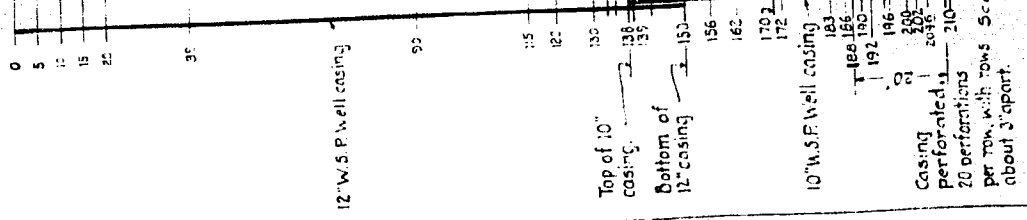
6' Fine pea gravel and boulders.
 9' Fine pea gravel.
 133' W.L. Clarks Fork Riv. 4-28-42
 9' Fine pea gravel and little sand.
 135' W.L. Well 4-10-42
 17' Pea gravel and white sand.
 143' Low W. Clarks Fork Riv.

6' Coarse gravel and little sand.
 10' Coarse gravel and sand.
 Dry drilling to top depth and little sand.
 11' Coarse gravel and sand.
 3' Coarse gravel and little clay.
 2' Boulder
 3' Boulders and little clay.

4' Large gravel and pea gravel and little clay in seams.
 2' Boulders or rock.
 2' Boulders.
 5' Pea gravel and yellow clay.
 208' Top of gravel in well - 6-6-42.

Casing perforated 20 perforations per row with rows about 3' apart.
 Bottom of well 3/21-44
 by W.T. Brown, File 1059-2

Scale 1" = 30'



407-2

132

Insight

I received and filed
this instrument for record on the

26th day of Nov.

19 63 at 8:30 o'clock A M

Barney Madison
County Recorder

For \$1⁰⁰ By

Dupe Faught
Dys.

File No.

T. 24 R. 31 W

DUPLICATE

County

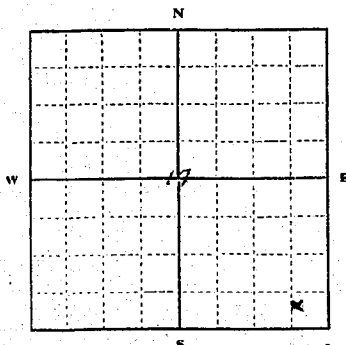
STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

RECEIVED
 DEC 23 1963
 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Water Service Inc., of Trout Creek, Mont. (Town)
 (Name of Appropriator) (Address)
 County of Sanders State of Montana
 have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 17 T. 24 N. R. 31 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 As a community water system for the town of Trout Creek, both for home and garden use, the water supply for the N.P. Railway.
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been Aug. 1949 and continuous to present date.
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1000 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 the yards and gardens in the town of Trout Creek.
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal pump located as per drawing.

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Approx. July, 1949 - Aug. 1949
- 8. The depth of water table unavailable
- 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 Turbine - 16" --- 285'.
- 10. The estimated amount of groundwater withdrawn each year unavailable - No record kept.
- 11. The log of formations encountered in the drilling of each well if available unavailable
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record unavailable

Water Sewing Inc.
 Signature of Sen. J. P. Stouckler
 Date Dec. 20, 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.

194

102393

Indexed

I received and read
this instrument for record on the

20 day of Dec.

1963 at 10:10 o'clock A M

James W. Anderson
County Recorder

For 1st By

Emily Wood, Dy.
By Ed.

File No.

T 24 N R 31

DUPLICATE

County Sanders

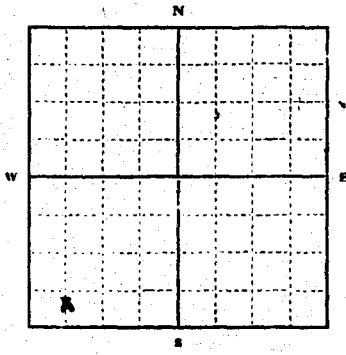
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUN 3 1964

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

1. Mr. Chester Robbins, of Box 36 Trout Creek
(Name of Appropriator) (Address) (Town)

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



SE 1/4 SW Sec. 19 T 24 R 31
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
1966
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute)
7 or 8 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
No
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Pressure pump.

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
1966
- 8. The depth of water table
20 feet
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Dug well and size 4 by 20.
- 10. The estimated amount of groundwater withdrawn each year
708,000 gallons
- 11. The log of formations encountered in the drilling of each well if available
Sand and clay.
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record
Unknown

Signature of Owner *Chester Robbins*
Date Dec. 30, 1968

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.

21535

429
Indexed

I received and filed
this instrument for record on the
30th day of Dec.
1963 at 2:54 o'clock P M
Dorothy Dodson
County Recorder
For \$1.00

By
Dixie Vaughn
Dep

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

County Sanders

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.

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Arthur Keistee

Address

Trout Creek, Montana

Date well started 1/20/70

completed 2/70

Type of well drilled

Equipment used churn

Water Use: Domestic Municipal Stock Irrigation

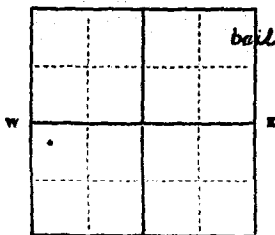
Industrial Drainage Other * Garden/Lawn

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" id	6 x .280	0	352 1/2	does not apply		



Static water level 290 ft.*
 Rising water level 395 ft.*
 at 15 gallons per minute,
 measured 16 minutes after pumping
 began.
 *Measured from ground level.
 Well developed by bailing
 for 2 1/2 hours.
 Power x Pump x HP
 Remarks: (Gravel packing, cementing,
 packers, type of shutoff)

N 1/4 Sec. 20
 T. 24 N. R. 31 W.

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

Driller's Signature Engineer H Kane

Driller's Address Idaho

LICENSE NO. 23

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	2'	clay soil
2'	45'	clay and cobblestone
45'	65'	clay and boulders
65'	205'	sand and boulders
205'	222'	clay, gravel and cobblestone
222'	232'	sand and boulders
232'	262'	clay and gravel
262'	290'	sand, gravel and clay
290'	352 1/2'	sand, gravel, boulders and water

352 1/2 Show exact depth of bottom

49,910

5
INDEXED

124356

INVESTIGATION OF THE
ACTIVITIES OF THE
COMMUNIST PARTY, USA
IN THE STATE OF CALIFORNIA

MEMORANDUM FOR THE DIRECTOR
FROM: SAC, LOS ANGELES
SUBJECT: [Illegible]

I received and find

this instrument for record on the 22nd

day of Feb. 72

at 4:25 p.m.

by
Linda Browne, Rep

for \$1.00
County Recorder

GW 2

File No.

T. 241R 31W

DUPLICATE

County Sanders

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAR 7 1963

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
(Elev. above sea level. 1803.)

15 soil and large rocks
4 boulder
13 soil and large rocks
43 sand, gravel and some water
32
3 clay
26 coarse gravel and water

Owner. A. Woodruff Jr. Address. Trout Creek

Driller. Kane Water Well Drilling Address. St. Regis

Date of Notice of Appropriation of Groundwater 12/26/62

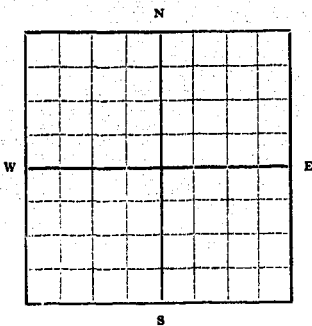
Date well started 12/30/62 Date Completed 1/2/63

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"	1 9/16" id	0	93 1/2	does not apply		



1/4 Sec. 21, T. 241R 31W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

93 1/2 Show exact depth of bottom.

Static Water Level for non-flowing Well 61 feet.

Shut-in Pressure for Flowing Well does not apply

Pumping Water Level 55 feet at 25 gal. per minute.

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

How Tested bailed Length of Test 2 hours

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

23 Driller's License Number

Eugene H. Kane Driller's Signature

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

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

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

#172
Index

100485

I received and filed
this instrument for record on the

4th day of March

19 63 at 11:30 o'clock A M.

Saratthi Dadao
County Recorder

Fee 21 ⁰⁰ By Shiv Dought
Dep.

File No.

T. 24 N 31 W

DUPLICATE

County Sanders

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

Declaration of Vested Groundwater Rights 1964

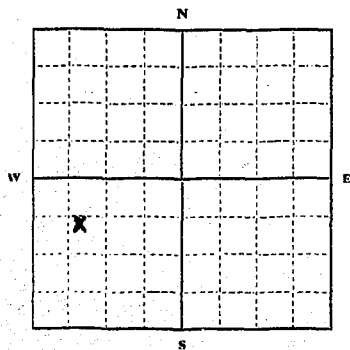
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. William R. Bessire, of East Creek
(Name of Appropriator) (Address) (Town)

County of Sanders 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 hold & Cabin consumption

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

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

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

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

N.W. 1/4 Sec. 22, T. 24, R. 31

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. Nov 1963

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. Hand dug 15 ft as near as known cased down approximately 21 near ft.

10. The estimated amount of groundwater withdrawn each year. 918,000 gals

11. The log of formations encountered in the drilling of each well if available. 165 ft of gravel, 3 ft of clay & sand probably gravel for 165 ft as near as known

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

Signature of Owner William R. Bessire

Date Dec 30 1963

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

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

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

457
Indexed

I received and filed

this instrument for record on the

30th day of Dec.

19. 63. at 2:28 o'clock P M

Dorothy Jackson
County Recorder

Fee \$1.00

File No.

T. 24 N R 31 W

DUPLICATE

County Sanders

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964

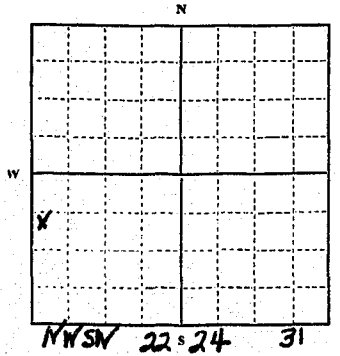
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. William B. Bessire, of Trout Creek
(Name of Appropriator) (Address) (Town)

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



1/4 Sec. T. R.

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Nov. 1958
Continuous

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

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

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 completion July 1957

8. The depth of water table 7 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 point 2" pipe driven 18 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

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 Wm B Bessire

Date Dec 30 1963

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

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

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

453
Indexed

I received and filed
this instrument for record on the
30th day of Dec
19 63 at 3:40 o'clock P.M.
Dorothy Dolson
County Recorder
Fee \$1.00

File No.

T. R. Sanders
County Sanders

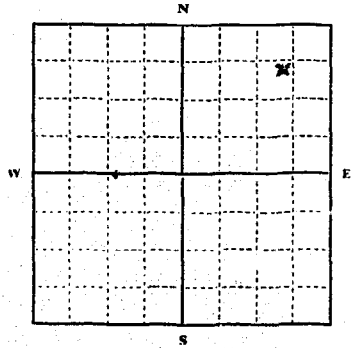
DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

RECEIVED
DEC 27 1964
STATE ENGINEER

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

1. Edward E. Moss, of Trail Creek Mont
(Name of Appropriator) (Address) (Town)
County of Sanders State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 NE Sec 7 T. 24 R. 31
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
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been Household 1958
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 400 gal 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 Laura
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Etc. pump
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater don't know
- 8. The depth of water table 75'
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6" casing 183' deep
- 10. The estimated amount of groundwater withdrawn each year approx 4,800
- 11. The log of formations encountered in the drilling of each well if available don't 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 don't know

Signature of Owner Edward E. Moss
Date Dec 30 1963

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

402
Indexed

I received and filed
this instrument for record on the
30th day of Dec
1963 at 1:30 P.M.
Dorothy Johnson
County Recorder
Fee \$1.00

File No.

T. 2h N R. 31 W

DUPLICATE

County Sanders

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
APR 10 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

- Top of Ground (Elev. above sea level.....)
- 0 to 7' Sand
- 7' to 30' Clay
- 30' to 116' Clay & gravel
- 116' to 119' Boulder
- 119' to 172' Clay & Gravel
- 172' to 192' Gravel, sand and water

Owner: John T. Potter Address: RT4, box 4249 Big Harbor, Washington

Driller: Glenn Camp 705 Alder Address: Missoula, Montana

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

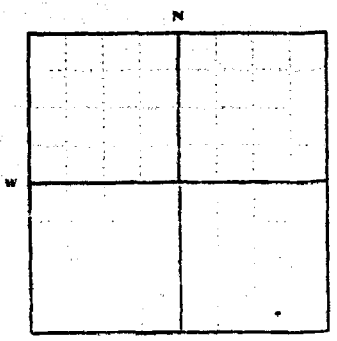
Date well started: 3/14/64 Date Completed: 3/25/64

Type of well: Drilled Equipment Used: Churn 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 (Foot)	To (Foot)	PERFORATIONS		
				Kind Size	From (Foot)	To (Foot)
6"	5/8" . . . casing					
	15.97 # per foot	1' above G.L.	to 193'			
				None		



Section T. 2h N. R. 31 W. Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well: 173' from Top of casing feet.

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

Pumping Water Level: 173 feet at 20 gal. per minute.

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

How Tested: Bailor Length of Test: 1 hour

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

License # 7
Driller's License Number

Glenn Camp
Driller's Signature

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

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

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

627
\$ deficit 103586

I received and filed
the instrument for record on the
9th day of April
1964 at 11:50 o'clock A.M.
Wanda M. Anderson
County Recorder
Paid 10.00 By
Wanda M. Anderson
Rep

File No.

T. 24 N. R. 31 W.

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

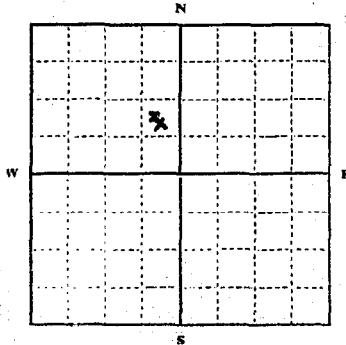
RECEIVED
JAN 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Mr. Charles E. Robbins, of Trout Creek
(Name of Appropriator) (Address) (Town)

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



SE 1/4 NW Sec. 30, T. 24, R. 31

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. 1954 Used year around.

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

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

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

8. The depth of water table. 14 feet deep

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. 3 feet square and 14 feet deep

10. The estimated amount of groundwater withdrawn each year. 18,250 gallons

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

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

Signature of Owner. Charles E. Robbins
Date Dec. 30, 1963

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

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

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

411
Indexed

I received and filed
this instrument for record on the
30th day of Dec
19 63 at 1:54 o'clock P. M.
Dorothy Dodson
County Recorder
Fee 41.00

File No. 7221

MONTANA WATER RESOURCES BOARD

T. 24 R. 31

DUPLICATE

RECEIVED

County Sanders

LOG

NOV 10 1967

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground
(Elev. above sea level)

70' clay, sand

165' clay, sand and gravel

85' rock with faults containing water

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner Charles Bert Robbins Address Trout Creek, Mont.

Driller Kane Water Well Drilling Address St. Regis, Mont.

Date of Notice of appropriation of groundwater 10/21/67

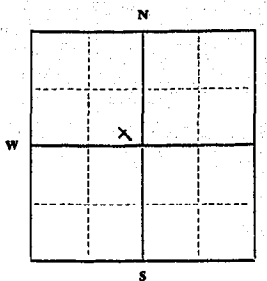
Date well started _____ Date completed 10/26/67

Type of well drilled Equipment used churn
(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)
0" id	6 x .280	0	268	does not apply		



Static Water Level for non-flowing well 258 feet.

Shut-in Pressure for Flowing Well X

Pumping Water Level 273 feet at 20 gal. per minute.

Discharge in gal. per min. of flowing well X

How Tested bailed and pumped

Length of Test 12 hours

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

Sec. 1/4 NW 1/2 Sec. 30 T. 24 R. 31
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).

320 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.

23
Driller's License Number

Eugene G. Kane
Driller's Signature

42,514

721
INDEXED

112510

I received and filed

this instrument for record on the 7
day of Nov 1967
at 4:00 o'clock P M
Kerthy Dodson
County Recorder
Fee \$.00

GV

MONTANA WATER RESOURCES BOARD
RECEIVED

Approved Stock Form—State Publishing Co., Helena, Montana—44887

File No. 259

T. 24 R. 31

DUPLICATE

FEB 11 1970

County Sanford

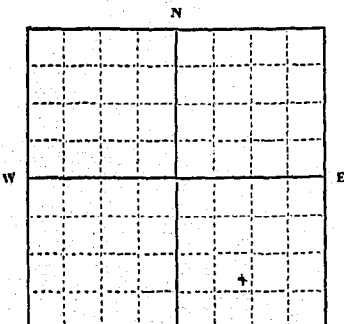
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Charles R. Robbins, of Star Rt. Trout Creek
(Name of Appropriator) (Address) (Town)

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



SW SE, s
1/4 Sec 30 T24N R31W

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

2. The beneficial use on which the claim is based...
House hold & Stock water Irrigation

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute)...
App. 500 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.
Charles R. Robbins & Anna Marie Robbins
Home & garden
Sec 35, T24, R31

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...
Unknown

8. The depth of water table...
3 1/2 ft approx

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...
approx 7 ft diameter
depth unknown

10. The estimated amount of groundwater withdrawn each year...
200,000 or App per year

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

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

File No. 17825
Filed for record
Feb. 6 1970
A. D. 1970
at Luck f

Signature of Owner Anna Marie Robbins
Date Feb 5, 1970

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.

46157

159

117825

INDEXED

I received and filed

this instrument for record on the 6th

day of Feb 1910

at 2:00 o'clock P

Secretary Jackson

County Recorder

Fee 3.00

By E. E. Eddy

Exp.

33

File No.....

T. 24 N. R. 51 W

DUPLICATE

County Golden
RECEIVED
JAN 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 App. 1960

Thompson Falls

Owner Hans Pedersen Address Thompson Falls, Mont.

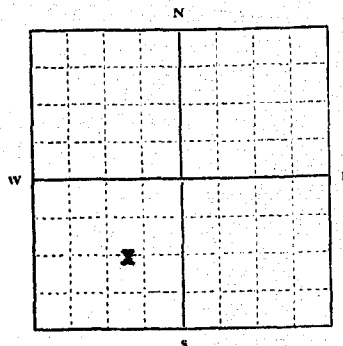
Contractor (if any)

Address of Contractor

Date Started Unknown Date Completed Unknown

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. By means of an 1 1/2 pipe

Gravity Flowing



Sec. 34 1/4, 34 Sec. 34, T. 24, R. 51

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 All year

App. 1000 per day

Signature of Owner Hans Pedersen

Date Dec. 27, 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.

301
Lead

I received and filed
the instrument for record on the
27 day of Dec
1963 at 11:47 A.M.
Dorothy Dodson
County Recorder
By
Evelyn Wood
Dep.

W 3

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

File No.

T. 24 R. 31

DUPLICATE

County

STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

RECEIVED
 JAN 3 1963
 STATE ENGINEER

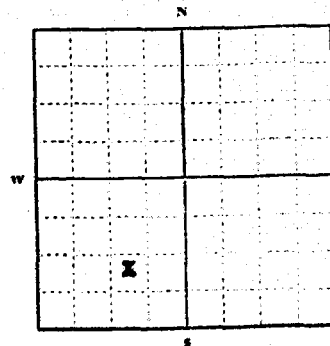
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater... 1948Owner... M. H. Pedersen Address... Trout Creek, Mont.

Contractor (if any)

Address of Contractor

Date Started... Unknown Date Completed... UnknownDescribe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. by means of an 1 1/2" pipeGravity Flowing

23-1/4 Sec. 35 T. 24 R. 31

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... all yearapp. 1000 per daySignature of Owner... M. H. PedersenDate... Dec. 27, 1962

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.