

File No.

T. 12 N

R. 20W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

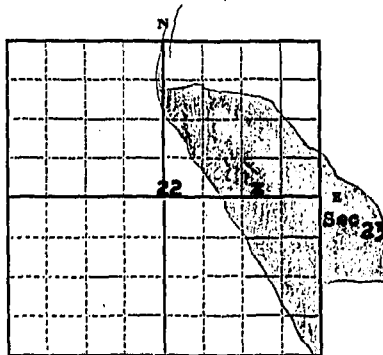
RECEIVED
SEP 28 1962

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. I, Richard Rossignol, of Lolo, Montana
(Name of Appropriator) (Address) (Town)
County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is Irrigation
Part of NE¼ and Part of SE¼ Sec 22 - Part of NW¼ and Part of SW¼ Sec 23
(describe lands to be benefited, if for irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed 800 gals per min
4. The annual period (inclusive dates) of intended use Apr 1 to Sept. 1
5. The probable or intended date of first beneficial use Has been used off and on since 1946
6. The probable or intended date of commencement and completion of the well* or wells*
Abandon gravel pit started 1946 completed 1959
7. The location, type, size and depth of well or wells contemplated as indicated on plat
App. 5 acres - depth from 15' to 40'
8. The probable or estimated depth of the water table or artesian aquifer unknown
9. Name, address and license number of the driller engaged None
10. Give such other similar information as may be useful
in carrying out the policy of this act.
Irrigated by means of tractor
mounted pump and aluminum pipe
sprinkler system



1/4 Sec. 22 T. 12N R. 20W
Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator

Date September 21, 1962

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however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

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

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

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

2164

148

197824

I received and filed this instrument for
record on the 26 day of Sept 1962
at 1:40 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By Barbara Crause Deputy
Fee \$ 2.00 Paid

File No. _____

T. 12N R. 20W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

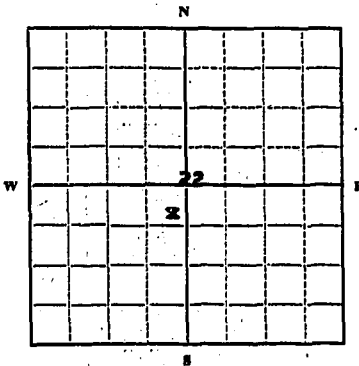
RECEIVED
SEP 28 1962

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

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



NW 1/4 SW 1/4 Sec. 22 T. 12N R. 20W

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

2. The beneficial use on which the claim is based domestic and stock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 12 months a year since April 1946
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallons per min
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof 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 Well - NW 1/4 SW 1/4 Sec 22
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater April 1946
8. The depth of water table Unknown
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater driven casing - 6" 1/2 H.P. Pump
2 pipes in casing - 1" and 1 1/2" - depth 45'
10. The estimated amount of groundwater withdrawn each year 36,000 gallons per year
11. The log of formations encountered in the drilling of each well if available None available - driller is now dead
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 Richard Rossignol

Date September 21, 1962

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

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

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

2165.

149

197825

I received and filed this instrument for
record on the 26 day of Sept 1962
at 1:45 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By Kenneth Crane Deputy
Fee \$ 2.00 Paid

RECEIVED

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Richard Rossignol

Address Lolo, Montana

Date well started 5/30/73

completed 6/4/73

Type of well Drilled

Equipment used Cable Tools

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

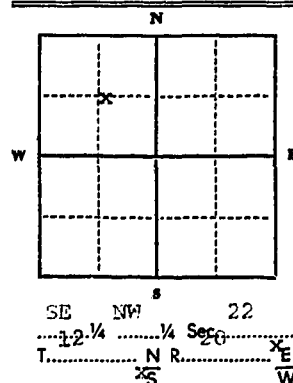
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*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). Approx. 4.9 Acres

ESTIMATED ANNUAL WITHDRAWAL 525,600,000 gallons

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" OD x 5"	+2	120	N	o	n



Static water level 62' 6" ft.*
Pumping water level 84' ft.*
at 120 gallons per minute,
measured 120 minutes after pumping
began.
*Measured from ground level.
Well developed by Air Lift Pump
for two hours.
Power Gas Pump 30 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff) All water
entering well through open
bottom of six inch casing.
Wells in this area can be
depended upon to produce
cont'd

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

Driller's Signature Liberty Drilling Company

Driller's Address 2500 Reserve Street

Missoula, Montana 59801

52

LICENSE NO.

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground Approx. (Elev. above sea level) 3220'

From (Feet)	To (Feet)	
0	3	Small broken rock and dirt
3	39	Silty sand and broken rock
39	62	Broken rock with light brown silt mixed in
62	66	Light brown silty clay
66	77	Silty sand with broken rock mixed in
77	92	Broken rock with stringers of clay. Seep
92	109	Broken rock embedded in clay. Seeps
109	117	Silty sand and broken rock with stringers of brown clay
117	120	Clean coarse fractured rock. water

120' Show exact depth of bottom water rises in well 62' 6" from surface.

54,001

3.33911

clear sand free water year after year as long as they are not overpumped, i.e., they should be pumped at rates not in excess of 50 to 60 percent of the tested capacity of the aquifer

File No. _____

DUPLICATE

T 12N R 20W

County Missoula

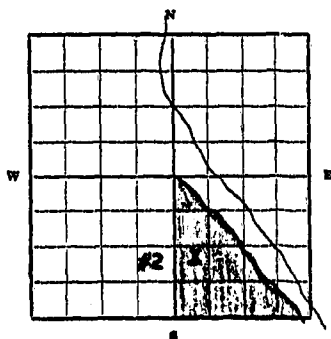
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

RECEIVED

STATE ENGINEER

1. Richard Rossignol of Lolo
(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. 22 T12N R20W

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

2. The beneficial use on which the claim is based Irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been In use since April 1946
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 240 gals 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 All of SW 1/4 of SE 1/4 of Sec 22. Less enough and right of way. App. 50 acres.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 10 h.p. electric pump from 30" perforated pipe. Location as marked by x on plat.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started March 1946. finished March 1946
8. The depth of water table Unknown
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Perforated pipe 30" in circumference 30' long. driven in sand and gravel
10. The estimated amount of groundwater withdrawn each year 34,560,000 gal
11. The log of formations encountered in the drilling of each well if available 2' top soil - remainder sand 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 Richard Rossignol

Date September 26, 1962

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

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

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

#153

197963

I received and filed this instrument for
record on the 1 day of Oct 1962
at 11:15 o'clock 2 M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By Harold A. Scott Deputy
Fee \$ 2.00 Faid

* These should probably be SW + SW
not NW NE

File No. _____

T. 12N R. 20W

DUPLICATE

County Missoula

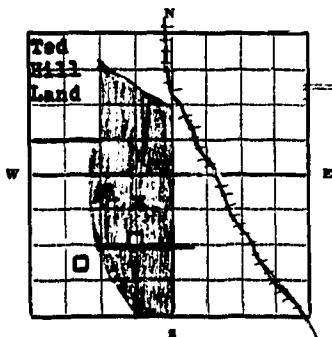
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUL 1 1962

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

STATE ENGINEER

1. Richard Rossignol, of Lolo
(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. 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 Irrigation
3. Date or approximate date of earliest beneficial use, and how continuous the use has been In use since April 1946
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 480 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. ALL SE1/4 of NW1/4 L.R.W. Part of NE1/4 of NW1/4. Part of the SW1/4 of NW1/4. All of the NW1/4 of SW1/4 less buildings and road. Part of NW1/4 of NW1/4. Part of SE1/4 of SW1/4 Sec 22; app. 120 acres
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 22 h.p. electric pump from open sump dug with drag line. Location as marked by x on plat
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater March 1, 1946 - April 1, 1946
8. The depth of water table Unknown
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Open sump 30' in diameter dug with drag line 22' deep
10. The estimated amount of groundwater withdrawn each year 69,120,000 gals
11. The log of formations encountered in the drilling of each well if available Two feet top soil - remainder sand 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 Richard RossignolDate September 26, 1962

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

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

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

#152

197962

I received and filed this instrument for
record on the 1 day of Oct. 1962
at 11:10 o'clock A. M. permanent files
of Missoula County, State of Montana
Witness my hand
MARTIN S. BEHNER, County Recorder
By Heidi A. Smith Deputy
Fee \$ 2.00 Paid

File No. _____

T. 12N R. 20W

DUPLICATE

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level _____)

0 to 62' Broken rock &
Brown Clay
62' to 65'-3" Tan clay
gravel & water

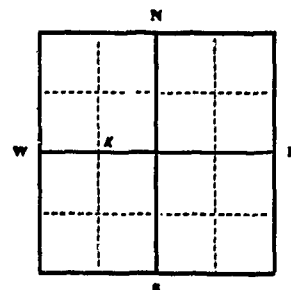
Owner Edward Shultz Address Leola, MontanaDriller Glenn Camp 1522 S. 14th Address Missoula, MontDate of Notice of appropriation of groundwater May 27, 1968Date well started 4/3/68 Date completed 4/5/68Type of well Drilled Equipment used Churn drill
(Dug, driven, bored or drilled) (Churn drill, rotary 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)
8"	8" I.D. 17# to feet	18" above G.L. to 65' 3"			none	

← Height water rises in well.

Bottom of well - 65' 3"

Static Water Level for non-flowing well 45 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 50 feetat 20 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Test PumpLength of Test 1 1/2 hours

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

SW 1/4 Sec. 22 T. 12N 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).

Show exact depth of bottom.

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

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

License # 7

Driller's License Number

Glenn Camp
Driller's Signature.

44173

1794

271623

I received and filed this instrument for
record on the 27 day of May 1968
at 10:50 o'clock P.M. pursuant to file
of Missoula County, State of Montana
Witness my hand:
Vermae H. Crouse, County Recorder
By W. H. Cunningham Deputy
Fee \$4.00 Paid cash

43

Missoula County, Montana

File No. _____

RECEIVED

T. 12 R. 20

DUPLICATE

JUN 18 1970

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Top of Ground

(Elev. above sea level _____)

Notice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

0-1 Black Dirt & Gravel

1-19 Clay and Gravel

19-24 Sand and Gravel

24-46 Clay and Gravel

46-60 Clay, Gravel &
a little water

60-61'4" Gravel & Water

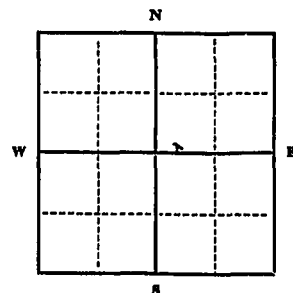
Owner Robert Albert Address Radio Ranchette
CAMP WELL DRILLING 1522 S. 14th W.Driller & PUMP SUPPLY Address Missoula, Montana

Date of Notice of appropriation of groundwater _____

Date well started April 16, 1970 Date completed April 20, 1970Type 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" I.D.	6" I.D. 17 lb per ft.	22" above G.L.	61'4"		none	

Static Water Level for non-flowing well
_____ 27 _____ feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level _____ 32 _____ feet

at _____ 35 _____ gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Air CompressorLength of Test One Hour

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

Lot 6, Sec. 3
Radio Ranchette
Churn II

SW 1/4 NE 1/4 Sec. 25 T. 12 R. 20

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

Doc. No. 291731

Filed for record

this 1 day of JuneA. D. 19 70, at 4:00o'clock P.M.

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

Show exact depth of bottom. _____

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

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

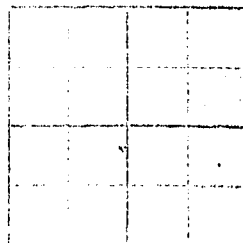
License # 7
Driller's License NumberDriller's Signature CAMP WELL
DRILLING & PUMP SUPPLY

46568

1994

291731

I received and filed this instrument for
record on the 1st day of June, 1970,
at 11:00 o'clock P.M., permanent files
of Missoula County, State of Montana.
Witness my hand:
Verance R. Crouse, County Recorder
By M. M. [Signature], Deputy
Fee 5.20.00 Paid cash



Photograph of [unclear] and [unclear]
from [unclear] [unclear] [unclear]

Photograph in copy has been [unclear] [unclear] [unclear]

Photograph [unclear] [unclear] [unclear] [unclear] [unclear]

[unclear] [unclear] [unclear] [unclear] [unclear]

MISSOULA COUNTY, MONTANA
RECORDING DEPARTMENT
RECEIVED

9

MONTANA WATER RESOURCES BOARD
RECEIVED

Approved Stock Form—State Publishing Co., Helena, Montana—45642

File No. _____

DUPLICATE

LOG

T. _____ R. _____
County MissoulaSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground _____

(Elev. above sea level _____)

**Notice of Completion of Groundwater
Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

0 to 4' Black Dirt

4' to 18' Sand &

gravel

18' to 61½' Sand & water

61½' to 65' Sand, gravel

& water

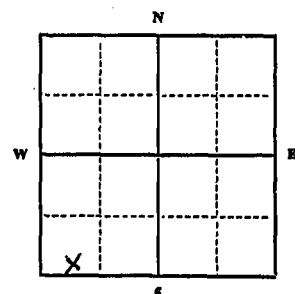
Owner Loren Johnson Address Miller Creek
Pump Sply 1522 S. 14th
Driller Camp Well Drilling & Address Missoula, Mont.

Date of Notice of appropriation of groundwater _____

Date well started 2/5/70 Date completed 2/7/70Type of well Drilled Equipment used Churn Drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" I.D.	1' above G.L.				
	17½' to 65' feet					

Doc. No. 288629
Filed for record
this 10 day of February
A. D. 19 70, at 2:40
o'clock P M.Static Water Level for non-flowing well
15 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 42 feet
at 100 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested CompressorLength of Test 2 hours

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

S E ¼ Sec 25 T 12 R 10
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

License # 7

Driller's License Number

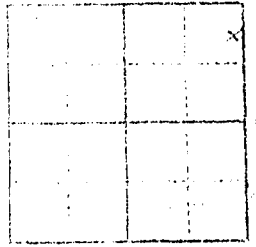
Driller's Signature

1958

DEED

288629

I received and filed this instrument for record on the 10 day of Dec 1970 at 2:40 o'clock P.M. pursuant to the laws of Missoula County, State of Montana. Witness my hand: Veronica R. Crouse County Recorder By Christ N. Smith Deputy Fee \$ 5.00 Paid Cash



MISSOULA COUNTY RECORDS
MISSOULA, MONTANA
RECORD OF CONVEYANCES
BOOK 288 PAGE 629

Recorded (including postage) on 12/10/70
Length of Paper 5 inches
How Paid? CASH

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Ralph Jordan

Address 33 Virginia Drive

Nissoula, Montana

Date well started Sept. 17, 197

completed Sept. 19, 1971

Type of well Drilled

For Administrator's Use

File 2265-315458

April 19, 1922 14:00 a.m.

GW 1

Equipment used Churn Drill

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

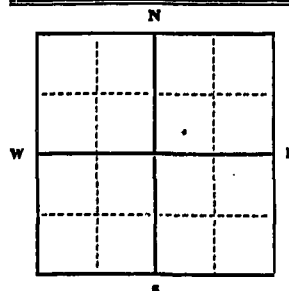
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

***Describe**

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" ID	6" ID 17 lb per ft.	1' above g.l.	69'			



Static water level**52**.....ft.*
Pumping water level**60**.....ft.*
at**10**.....gallons per minute,
measured**2**.minutes after pumping
began.

*Measured from ground level.

Well developed by test pump
for 7 1/2 hours.

Power Electric..... Pump 1..... HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

SW 1/4 NE 1/4 Sec. 25

T. 12 (N) R. 20

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

Driller's Signature

Driller's Address 1522 S. 14th W., Missoula, Montana

Philip G. Barker LICENSE NO. 7

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)

[illegible]

69% Show exact depth of bottom

50,256

2265 315458

I received and filed this instrument for
record on the 19th day of April 1972
at 2:00 o'clock P.M. pursuant to the
of Missouri County, State of Montana
Witness my hand
Veronica R. Cress, County Recorder
By 221-11-10-11-11 Deputy
Fee \$2.00 paid

FILED
APR 19 1972
MISSOURI COUNTY
MONTANA

new

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Robert J. Knudson

Address 1104 Clark St.

Missoula, Montana

Date well started May 6, 1971

completed May 10, 1971

For Administrator's Use	
File	<u>302479</u>
Date	<u>May 11, 1971</u>
Time	<u>11:00 AM</u>
GW 1	

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

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

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

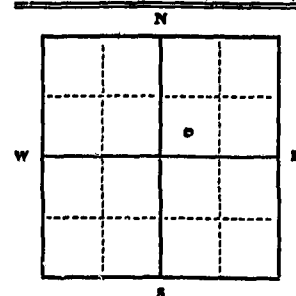
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe _____

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

ESTIMATED ANNUAL WITHDRAWAL _____

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I.D.	6" I.D. 17 lb per ft.	2' above g.l.	125' 5"			



Static water level 95 ft.*
Pumping water level 95 ft.*
at 90 gallons per minute,
measured 4 minutes after pumping
began.

*Measured from ground level.
Well developed by test pump
for 1 hours.

Power Electric Pump 3/4 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff) _____

3.0 1/4 N.E. 1/4 Sec. 25
T. 12 N. R. 20 E.
S. 20

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

Driller's Signature Philip G. Bakke

Driller's Address CAMP WELL DRILLING & PUMP SUPPLY
1522 S. 14th St., Missoula, Montana

LICENSE NO. 7

County Missoula

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)		
From (Feet)	To (Feet)	Well: Rodeo Ranchettes
0	1	black topsoil & gravel
1	105	tan clay & gravel
105	122	yellow clay & gravel
122	142	sand and water
142	146	tan clay & gravel
146	147	sand gravel & water
147	120	clay and gravel
120	125' 5"	sand gravel & water

— 125' 5" — Show exact depth of bottom

48466

2131

302489

I received and filed this instrument for
record on the 11th day of January, 1927,
at 11.00 o'clock A.M., pursuant to law
of Missoula County, State of Montana.

Witness my hand:

Vernice R. Crouse, County Recorder
By Wm. C. Crouse, Deputy
Fee \$ 2.50 Paid ck

49, 79/

#5226

311981

I received and filed this instrument for
record on the 21 day of Jan 1972
at 10:00 o'clock A.M., permanent time
of Missoula County State of Montana
Witness my hand
Veronica R. Crouse, County Recorder
By Marion S. Thomas Deputy
Fee \$ 2.25 Paid Cash

RECORDED
INDEXED
MISSOULA COUNTY
CLERK
JAN 24 1972

File No. _____

T _____ R _____

DUPLICATE

County MissoulaLOG MONTANA WATER RESOURCES BOARD
RECEIVED
JUL 10 1969STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level 5,228)**Notice of Completion of Groundwater
Appropriation by Means of Well**
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

0 - 2 1/2 top soil

Owner Ray E. Stevens Address Spargia Rd. MissoulaDriller Harold K. Pickens Address 3624 So. Ave. Missoula

2 1/2 - 10 gravel & sand

Date of Notice of appropriation of groundwater _____

Date well started 6/10/68 Date completed 6/14/68

10 - 25 sand & water

Type of well drilled Equipment used cable tool
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

25 - 45 sand gravel & water

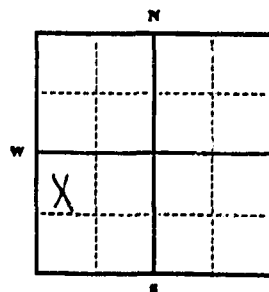
Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

45 - 49 reddish brown clay no water

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8 inch	8 in. 1. 2. 16 lbs. per ft.	0	72	none		

49 - 60 sand & water

60 - 67 gravel & water

Static Water Level for non-flowing well
7 1/2 ft. of top

Shut-in Pressure for Flowing Well _____

Pumping Water Level 10 ft of top test
at 45 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested compressorLength of Test 2 1/2 hrs.Remarks (Gravel packing, cementing, pack-
ers, type of shutoff) _____

Sec. 14 T. 12 R. 20
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.
67 ft. from top of ground

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

Driller's Signature

45,228

1887

281190

I received and filed this instrument for
record on the 13 day of May 1969
at 10:00 o'clock A.M., permanent files
of Missoula County, State of Montana
Witness my hand:
Vernon A. Crowe, County Recorder
By Paul N. Smith Deputy
Fee \$ 2.00 Paid Cash

RECEIVED
MAY 13 1969
MISSOULA COUNTY
CLERK

RECEIVED

County Missoula

MAY 29 1973

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
MONTANA WATER RESOURCES BOARD

DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

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 Gary W. Steuerwald

Address Route 5, Miller Crk.

Missoula

Date well started August 1, 1972

completed August 5, 1972

For Administrator's Use	
File	<u>2487, 332140</u>
	<u>MAY 24, 1973</u>
GW 1	<u>2:00 p.m.</u>

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

Equipment used pile
(Chain drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐ * Garden/Lawn ☒

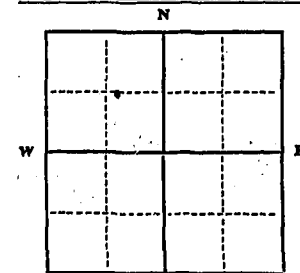
*Describe

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)
8"	6"					

this well drilled by previous owner
details unknown



Static water level 50 ft.*
Pumping water level 73 ft.*
at 100 gallons per minute,
measured 15 minutes after pumping
began.

*Measured from ground level.

Well developed by unknown
for hours.

Power Pump 1/2 HP

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

Lot 6, Rodeo Ranchettes

Sec. 25 Phase 2

E 1/2 NW 1/4

T. 12 S. 20 E. 3

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

Driller's Signature driller unknown

Driller's Address

LICENSE NO.

Show exact depth of bottom

53,281

File No. _____

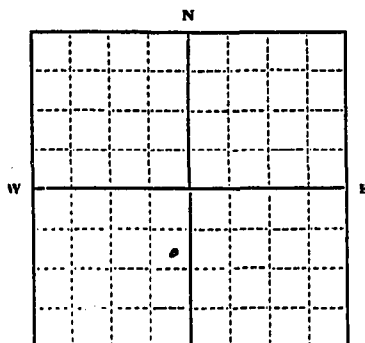
T. 12 N. R. 20 W. *26*DUPLICATE
MONTANA WATER RESOURCES BOARDCounty Missoula**RECEIVED**STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JUL 7 1969

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Ruby A. Baldwin, of Route #3, Missoula
 (Name of Appropriator) (Address) (Town)
 County of Missoula State of Montana
 have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



plat C
 1/4 SW 1/4 Sec. 26 T. 12 R. 20

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

2. The beneficial use on which the claim is based House
and domestic irrigation

3. Date or approximate date of earliest beneficial use; and how continu-
 ous the use has been 1939 to present

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

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

6. The means of withdrawing such water from the ground and the loca-
 tion of each well or other means of withdrawal
1/4 H. P. Pump 6" Casing

7. The date of commencement and completion of the construction of the well, wells, or other works for with-
 drawal of groundwater 1939

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
40 feet in depth, 6" casing

10. The estimated amount of groundwater withdrawn each year 50,000 gallons

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

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

Signature of Owner Ruby A. Baldwin

Date June 19, 1969

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.

45407

1908

282589

I received and filed this instrument for
record on the 30 day of June 1908
at 10 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand:
Verance R. Crouse, County Recorder
By J. J. Crouse, Deputy
Fee \$2.00 Paid

D

1920 283278

I received and filed this instrument for
 on the 24th day of July 1919
 at 1:00 o'clock P.M. permanent files
 of Missoula County, State of Montana
 Witness my hand.
 Verance R. Crouse, County Recorder
 By *M. M. Cunningham* Deputy
 Fee \$7.00 Paid

At 21.6' from surface.

Well produced 2000 gallons per minute of clear sand free water with 58% feet of drawdown. This is a specific capacity of 36 gallons per minute per foot of drawdown. Pumping level at 1600 gallons per minute was 66 feet. Static water level at completion was 21 1/2 feet from surface. Chemical analysis of water showed 11 grains hard, 1/10 of one part per million iron, PH Neutral and no undesirable properties. Results of bacteria test by Missoula County Health Department was negative.

Water Log:

Well cased from two feet above surface to 117 feet with 18 inch OD by 3/8 inch Wall Black Steel Water Well Casing. A forged steel drive shoe is welded to the bottom of casing. An 18 inch telescope size type 304 Stainless Steel Wire Wound Johnson Well Screen is set from 117 to 137 feet. A tail pipe with solidly closed bottom extends from 137 to 154 feet. The top of the screen is fitted with a lead packer which is tightly swaged to the inside of the 18 inch casing. Three inches of concrete grout was placed around the eighteen inch casing from the water table back to surface.

Casing Log:

- 104 - 109 Argillite and limestone boulders.
- 109 - 111 Fine to coarse tan sand, gravel and cobblestones.
- 111 - 115 Argillite and limestone boulders.
- 115 - 137 Coarse sand, fine to coarse gravel, cobblestones and few large boulders.
- 137 - 154 Broken argillite.

File No.

RECEIVED

T. L. W. R. 20 W 26

DUPLICATE

MAY 11 1968

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

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

01' well pit

3' tan clay, sand

39' & gravel

39' sand, gravel

41' & water

Owner NORMAN DAY Address Rt. #3 LOLO, MONTANADriller KEN WILLIAMS WELL DR. Address 1558 So. 5th W.
MISSOULA, MONTANA

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

Date well started AUGUST 27, 68 Date completed AUG. 27, 68Type 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 ☐

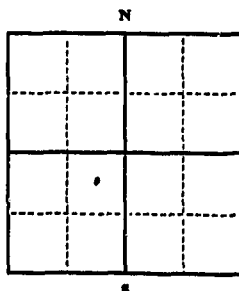
Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I.D.	6-5/8" O.D. 17 lbs. 1" side-wall	3 ft. below ground level	38 ft.			

Doc. No. 291079

Filed for record this 7 day of May

A. D. 19 70, at 11:50 o'clock a.m.



Static Water Level for non-flowing well 23 feet.

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

Pumping Water Level 33 feet

at 35 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested bail & test pump

Length of Test 2 hours

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

N 1/2 Sec 26 T12N R20W
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.

151
Driller's License Number

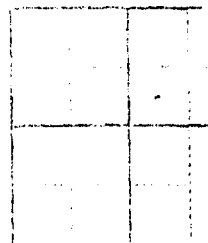
Ken Williams
Driller's Signature.

46429

Ca
1986

291079

I received and filed this instrument for
record on the 7 day of May 1970
at 1:50 o'clock P.M., per the file
of Missoula County, State of Montana
Witness my hand:
Dorance B. Clausen County Recorder
By *Dorance B. Clausen* Deputy
Fee \$ 2.00 cash paid



File No.

RECEIVED

T.12N

R.20W

DUPLICATE

MAY 1 1970

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground
(Elev. above sea level 3340ft.)

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

(Under Chapter 237, Montana Session Laws, 1961)

Formations Log:

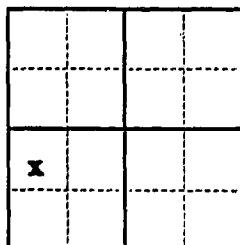
- 0 - 5 Dirt with some broken rock mixed in.
5 - 84 Dark gray rock.
84 - 209 Lighter gray rock with white seams.
209 - 212 Light gray and tan colored rock in thin alternate layers.
212 - 264 Light brown rock. Seeps of water.
264 - 302 Light gray and light brown rock in alternate layers. Total water 16 GPM
302 - 382 Light gray rock with white seams. Total water 60 GPM

Owner Mr. Richard Rossignol Address Lolo, MontanaDriller Liberty Drilling Co. Address Missoula, MontanaDate of Notice of appropriation of groundwater None filed.Date well started 3/31/70 Date completed 4/10/70Type of well Drilled Equipment used Air Rotary
(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)
10 1/4"		0	23			
8"		23	302	N	O	N
6"		302	382			
	6 5/8"	+1 1/2	302			

Water rises in well
180 feet from surface.



Static Water Level for non-flowing well
..... 180 feet.

Shut-in Pressure for Flowing Well None

Pumping Water Level..... 283 feet

at..... 60 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, pack-

ers, type of shutoff) Well was

grouted around the outside

of the six inch casing from

40 feet to 140 feet with

NW 1/4 Sec 26 T.12N R.20W
Indicate location of well and
place of use, if possible. Each
small square represents 40
acres.

seven sacks of cement. All water entering well
from cracks and seams in the (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 Addi-
tion).

Doc. No. 290748
Filed for record
this 28 day of April
A. D. 19 70, at 3:36
o'clock P. M.

Show exact depth of bottom.

Bottom of well 382 ft.

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

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

Driller's License Number

William B. Osburn
Driller's Signature

4/10/70

298 748

received and filed this instrument for
record on the 28 day of April 1970
at 2:36 o'clock P.M., per name: Thos
of Missoula County, State of Montana
Witness my hand
Veronica R. Crouse, County Recorder
By Wanda Stoner Deputy
Fee \$ 2.00 Paid

rock below 508 feet.

most notable landmarks in
line of road. It depicts a very
judicious position of road and
indicates position of road and
indicates position of road and

of the air they carried back
 cleaned windows for observation

6

2526

333912

I received and filed this instrument for
record on the 25 day of June, 1933
at 2:22 o'clock P. M., permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By M. M. Remington, Deputy
Fee \$2.00 Paid Head

File No.

T. 12 N. R. 20W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
SEP 4 1962

STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

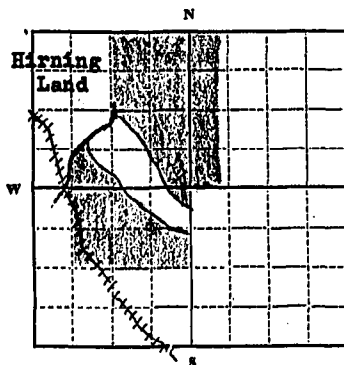
Date of Appropriation of Groundwater April 1944Owner Richard Rossignol Address Lolo, MontanaContractor (if any) noneAddress of Contractor noneDate Started 4/1/44 Date Completed 4/30/44

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

Using two 36" concrete pipe with gates tocontrol depth of water in pond. Sub-irrigatingland indicated in red

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

estimate approximate lengths of periods of use

Water in slough raised app. 3'Used year around - irrigation in summerstock water in winter1/4 Sec. 26 T12N R. 20W

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

+++++ Railroad

○ Pond

— Dam and road

■ Land Irrigated

Signature of Owner Richard RossignolDate September 21, 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.

197822

I received and filed this instrument for
record on the 26 day of Sept 1962
at 1:35 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. EHNER, County Recorder
By Dorothy Neach Deputy
Fee \$ 3.00 Paid

Neach

File No. _____

DUPLICATE

T 12 P R 20

County Missoula

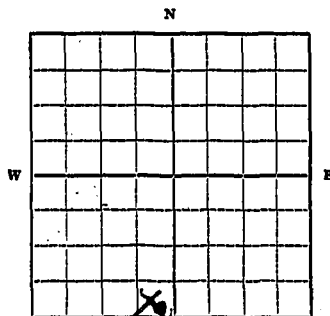
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUN 27 1962

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

STATE ENGINEER

1. School District No. 7 of Lo Lo
(Name of Appropriator) (Address) (Town)
County of Missoula State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec 36 T12N R20W

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

2. The beneficial use on which the claim is based WATER SUPPLY FOR Lo Lo School
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Approximately 1919 or 1920 - has been in use ever since.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 7.0 gallon 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 ther of School LAWN
Lo Lo School
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
ELECTRIC PUMP ON WELL -
LOCATED SOUTHEAST CORNER SCHOOL SITE
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater WELL DUG DEEPER and ELECTRIC PUMP INSTALLED IN 1949
8. The depth of water table Approximately 40'
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled well - 30'
TOTAL Depth - 110' - 6 casing
10. The estimated amount of groundwater withdrawn each year 600,000 gallon
11. The log of formations encountered in the drilling of each well if available Unconsolidated River Bed 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.

Signature of Owner School District No 7
Valley County - Clerk
Date June 14, 1962

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

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

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

137

194474

I received and filed this instrument for
record on the 28th day of June 1942
at 10:50 o'clock A.M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By Resume C. Smith Deputy
Fee \$ 2.00 Paid

28 June 1942

Montana

204616

204616

204616

204616

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204616

1942

File No.

T. 12^N R. 20^W 27

DUPLICATE

County MissoulaSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CONTROL
OFFICE OF STATE ENGINEERRECEIVED
FEB 24 1964Top of Ground
(Elev. above sea level.....)Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Route 3, Missoula

Silty Sand

Owner J. H. Herring Address Idaho Montana

Sand Gravel Clay

Driller John Farrell Address Arlee Montana

Gravel Water

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

Silty Clay Sand

Date well started Jan. 29, 1963 Date Completed Feb 1, 1964

Sand Fine Gravel Water

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

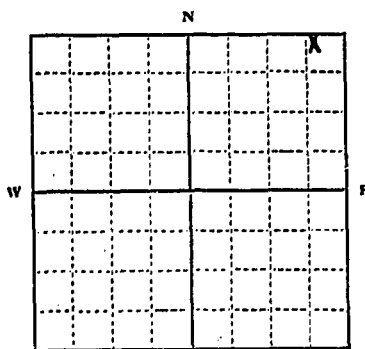
Heaving Sand Water

Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Stock ☐

Gravel Water

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which 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" 14.97#	0'	80'			

NE 1/4 NE Sec. 27, T. 12 R. 20
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

80'

Show exact depth of bottom.

Static Water Level for non-flowing Well..... 8' feet.

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

Pumping Water Level..... 17' feet at 50 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, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation).....

14
Driller's License NumberJohn Farrell
Driller's Signature

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

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

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

38482

226510

I received and filed this instrument for
record on the 10 day of Sept 19 64
at 4:45 o'clock P.M., pursuant to
laws of the State of Montana
Witness my hand:
Vernon R. Cooney, County Recorder
By Harold T. Chap Deputy
Fee \$ 2.50 Paid

after similar treatment information regarding number of men or those of use of contraceptives if not at all and why.

File No.

MONTANA WATER-RESOURCES BOARD

T. 12 N. R. 20 W.

DUPLICATE

RECEIVED

County MISSOULA

LOG MAR 5 1970

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level)

Well located West of Lolo

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

0-2 Black Dirt & Gravel

(Under Chapter 237, Montana Session Laws, 1961)

2-18 Clay and Gravel

Owner Richard Bond Address Alberton, Mont

18-20 Sand, Gravel & seep of water

Driller CHILLING & PIERCE 1522 S. 14th W.

20-32 Clay, Gravel & Rock

Date of Notice of appropriation of groundwater

Date well started Jan. 26, 1970 Date completed Feb. 5, 1970

32-55 Clay and Rock

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

55-66 Broken Rock, Silty sand, and water

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

66-100 Sandy clay, Broken Rock

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.

100-102 Broken Rock, clay trace of water

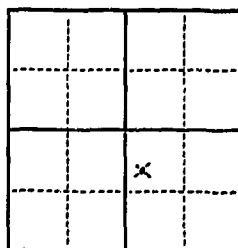
102-104 Broken Rock, Sandy clay, seep of water

104-120 Broken Rock, water

120 Broken Rock & Clay

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kid Size	From (Feet)	To (Feet)
6" I. P.	5" I. P. 77 lb per ft.	15" above G.L.	77'			
					none	

Dr. No. 289076
 F. for record
 the 2 day of March
 A.D. 1970 at 1:35
 o'clock P.M.



NW 1/4 Sec. 33, T. 12 N. R. 20 W.
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well

Drawdown = 63' Shut-in Pressure for Flowing Well

Pumping Water Level 11.5 feet

at 60 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested 10.1.1.1.1.1.1.

Length of Test 2 hours

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

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

License 7
 Driller's License Number

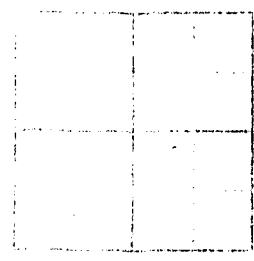
Driller's Signature
 CHILLING & PIERCE

46223

962

289076

I received and filed this instrument for
record on the 2 day of March 1970
at 11:35 o'clock P. M., permanent files
of Missoula County, State of Montana
Witness my hand
Vernon R. Crouse, County Recorder
By H. J. Sillings Deputy
Fee 5.00 Paid cash



Missoula County, Montana
Recorder's Office
1000 Broadway
Missoula, Montana 59801

County Missouri 33

**STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD**

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

CHUCK DOUGLAS

MORMON CREEK RD.

LOLO MONTANA

Date well started **MAR.26, 1978**

completed APR. 2, 1973

Type of well **DRILLED**

(Dug, driven, bored or drilled)

Equipment used **CHURN**
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

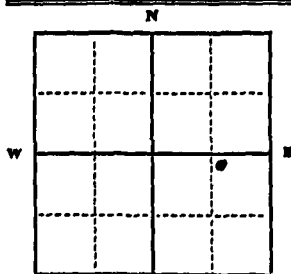
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

***Describe**

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I.D.	6-5/8" OD 17 lbs. 1 1/4" side-wall	ground level	68' 2"	none	none	none



NE 1/4 SE 1/4 Sec 33
T. 12 N. R. 20 E.

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

Driller's Signature Herbert J. Williams

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

LICENSE NO. 151

RECEIVED
Indicate

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.

MONTANA DEPARTMENT
RESOURCES AND CONSERVATION

Top of Ground

(Elev. above sea level)

[illegible]

68ft.2 in.

Show exact depth of bottom

52,883.

048

330323

I received and filed this instrument for
record on the 9 day of Apr 1973
at 10:30 o'clock A M., permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By Harry Stelley, Deputy
Fee \$ 2.00 Paid 0

RECORDED
INDEXED
FILED
MAY 1 1973
MISSOULA COUNTY, MONTANA

File No. _____

T. 12 R. 20 N.

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUL 8 1964

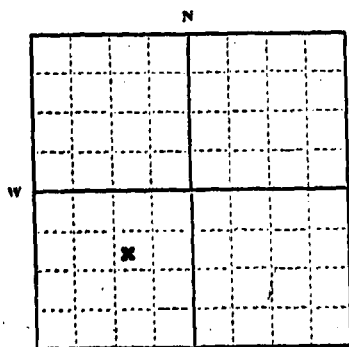
Notice of Completion of Groundwater Appropriation
Without Well

STATE ENGINEER

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1946Owner Alfred Hendrickson address 1010, MontanaContractor (if any) NoneAddress of Contractor NoneDate Started 1946 Date Completed 1946

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable Some waste water originates in borrow pit of Lewis & Clark highway and seepage water accumulates to a small flow of water that empties into joint ditch owned by Harold Kiney and Alfred Hendrickson.

SW $\frac{1}{4}$ Sec 33 T. 12 R. 20 N

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

about 300 inches used by both Kiney and Hendrickson from April through October of each year.

Signature of Owner Alfred HendricksonDate July 8, 1964

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

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

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

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

38300

1423

223727

I received and filed this Instrument for
record on the 8 day of July 1942
at 4:00 o'clock P. M. Permitted files
of Missoula County, State of Montana
Witness my hand:
Verano R. Crouse, County Recorder
By Mary Skelley Deputy
Fee \$ 2.00 Paid

File No.

T. 12 R. 20 W.

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUL 20 1964

STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater. 1946

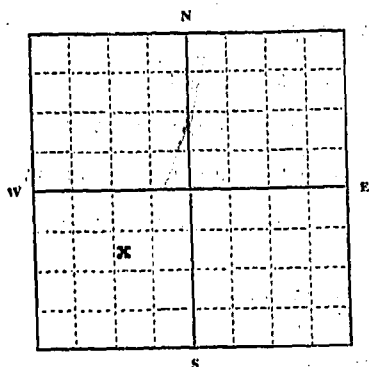
Owner Harold Kuney Address Missoula, Montana

Contractor (if any) None

Address of Contractor None

Date Started. 1946 Date Completed. 1946

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Some waste water originates in borrow pit of Lewis & Clark highway and seepage water accumulates to a small flow of water that empties into joint ditch owned by Harold Kuney and Alfred Hendricksen.



SW 1/4 Sec 33 T12 R. 20W

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

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

estimate approximate lengths of periods of use

about 300 inches used by both Kuney and Hendricksen from April through October of each year.

Signature of Owner

Harold Kuney

Date July 8, 1964

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

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

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

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

38301

1424

223728

I received and filed this Instrument for
record on the 8 day of July 1964
at 4:02 o'clock P.M., permanent files
of Missouri County, State of Montana
Witness my hand:
Veronica R. Crouse, County Recorder
By *M. M. Shalby* Deputy
Fee \$ 2.00 Paid

File No. SW 4T. 12 N R. 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

Notice of Appropriation of Groundwater

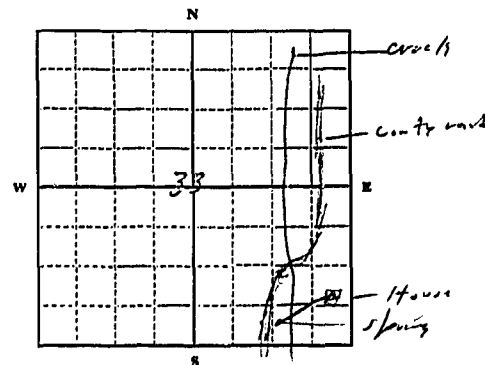
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

- I, Robert H. Lacey, of Box 708 Missoula,
(Name of Appropriator) (Address) (Town)
County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
- The beneficial use to which water is to be applied is Domestic + Livestock
(describe lands to be benefited, if for irrigation)
- The rate of use in gallons per minute or miner's inches of groundwater claimed 54 g.p.m. per minute
- The annual period (inclusive dates) of intended use year round
- The probable or intended date of first beneficial use late winter thru 1960
- The probable or intended date of commencement and completion of the well* or wells*
Spring
- The location, type, size and depth of well or wells contemplated
Spring
- The probable or estimated depth of the water table or artesian aquifer Unknown
- Name, address and license number of the driller engaged None

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

Location Approximate



1/4 Sec. 33 T. 12 N. R. 20 W.
Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Robert H. LaceyDate Dec. 17, 1962

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

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

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

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

#170

201152

I received and filed this instrument for
record on the 27 day of Dec, 1962
at 408 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By Charles Jensen Deputy
Fee \$ 2.00 Paid

File No.

T. 12N R. 20W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. I, Robert H. Loring, of Box 708 Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is Irrigation & Stock Water
Parts of S 1/2, S 1/4, S 1/8 Sec 4 and Lots 1 & 2
(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 80 miners
inches estimated

4. The annual period (inclusive dates) of intended use year around for stock
April 1st to Sept 1st for irrigation

5. The probable or intended date of first beneficial use in use since 1900

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

pond fed by springs

7. The location, type, size and depth of well or wells contemplated

pond fed by springs

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

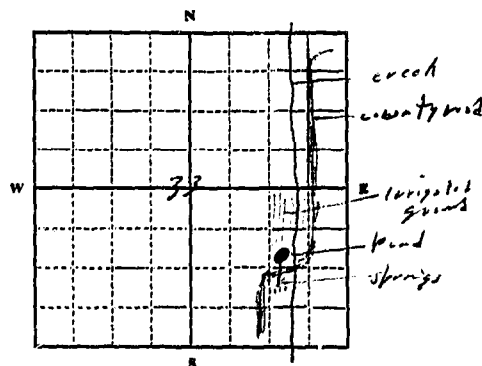
9. Name, address and license number of the driller engaged None

10. Give such other similar information as may be useful

in carrying out the policy of this act

stock water in tanks
irrigation by ditches

Location approximate



1/4 Sec. 33 T. 12N R. 20W
Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Robert H. Loring

Date Dec 27, 1962

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

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

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

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

2962.

169
201151

I received and filed this instrument for
record on the 27 day of Dec 1962
at 4:15 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By: Walter Hanna Deputy
Fee \$ 2.00 Paid

File No.

T. 12N R. 20W

DUPLICATE

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEERNotice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Stanley N. &

Owner Janice R. Norgaard Address Lolo, MontanaDriller Liberty Drilling Co. Address Missoula, MontanaDate of Notice of appropriation of groundwater None filedDate well started 6/5/68 Date completed 6/12/68Type 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.

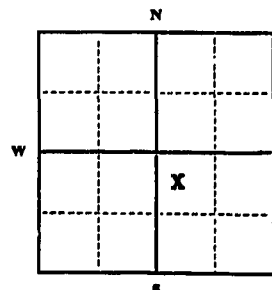
Top of Ground Approx.
(Elev. above sea level 3312')

Formations Log:

- 0 - 2 Topsoil with gravel mixed in.
2 - 16 Gravel, sand & cobblestones.
16 - 41 Decomposed granitic sand & gravel.
41 - 43 Decomposed granitic sand. Some clay.
43 - 63 Orange & brown clay. Some sand.
63 - 73 Sandy brown clay with broken rock mixed in.
73 - 84 Gray & brown shale rock. Water.

Water rises in the well
37 feet from surface.

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 1/4"	+1.11'	84'	NONE		

Static Water Level for non-flowing well
.....37.....feet.Shut-in Pressure for Flowing Well Non-F.
Pumping Water Level 63.....feet
at 30.....gal. per minute.Discharge in gal. per min. of flowing well
Non-flowingHow Tested Air Lift PumpLength of Test Two hoursRemarks: (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 can be depended upon to produce clear sand free water year after year as long as they are not overpumped; i.e., they should be pumped at rate not in excess of 50% of the tested capacity of the aquifer.

NW 1/4 Sec. 33, T.12N R. 20W

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

sand free water year after year as long as they are not overpumped; i.e., they should be pumped at rate not in excess of 50% of the tested capacity of the aquifer.

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

Approx. 4.8 Acres

Show exact depth of bottom.

Bottom of hole 84'

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 NumberWilliam F. Osburn
Driller's Signature.

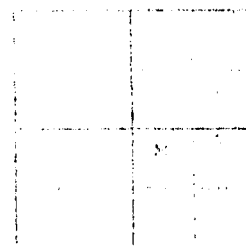
44,559

71817

274438

I received and filed this instrument for
record on the 6th day of Sept, 1968
at 4:40 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand:
Veramus R. Crouse, County Recorder
By M. J. Crouse Deputy
Fee \$5.00 Paid

MONTANA WATER RESOURCES BOARD
RECEIVED
SEP 12 1968



RECEIVED
SEP 12 1968
MONTANA WATER RESOURCES BOARD

County **Missoula**

**STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD**

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL.

Developed after January 1, 1962

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

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

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

Owner **Richard B. Sorenson**

Address **Box 278**

Idaho, Montana 59847

Date well started May 20, 1970

completed **May 23, 1970**

Type of well Driven

For Administrator's Use

File 298532
10:50 A.M.
January 11, 1964

GW 1

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

Equipment used A-frame & driver

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe **For domestic water & lawn irrigation**

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition). **not applicable**

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	0	30	holes in drilled casing 3/4"	21	31	

Static water level 18 ft.*
Pumping water level 15 ft.*
at 20 gallons per minute,
measured minutes after pumping
began.

*Measured from ground level.
Well developed by compressor
for hours.
Power..... 240V Pump..... 3/4 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

ME 1/4 SE 1/4 Sec 33

T. 12N N R. 20W

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

Driller's Signature Owner Initials

Driller's Address

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.

Approx.

3,000 ft

Top of Ground

(Elev. above sea level)

[illegible]

Show/ exact depth of bottom

47998

2077

298532

Received and filed this Instrument for
record on the 11th day of Jan 1971
at 10:50 o'clock A.M. permanent files
of Missoula County, State of Montana
Witness my hand.
Verance R. Crouse, County Recorder
By M. M. Thompson Deputy
Fee \$2.00 Paid

JAN 15 1971

○

50

File No. _____

DUPLICATE

MONTANA WATER RESOURCES BOARD

RECEIVED

T. 12N R. 20W

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground _____

(Elev. above sea level _____)

0-39 Clay and Gravel

39-50 Water and rock

Notice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

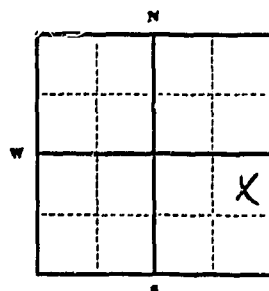
Owner Bill Vana Address Leola, Montana
1522 S. 14th W.Driller Glenn Camp Address Missoula, Montana

Date of Notice of appropriation of groundwater _____

Date well started April 28, 1969 Date completed April 30, 1969Type 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" I.D.	6" I.D. 17 lb per ft.	1' above G.L.	39'		none	

Static Water Level for non-flowing well
31 feet
from G.L.Shut-in Pressure for Flowing Well
Drawdown - 3'
Pumping Water Level 28' from G.L.at 20 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Test PumpLength of Test 1 hour

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

SW $\frac{1}{4}$ Sec. 33 T. 12 N. R. 20 W.

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

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

License # 7

Driller's License Number

Driller's Signature Glenn Camp
45, 225

188

28/235

I received and filed this instrument for
record on the 14 day of May 1969
at 1:30 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
Vernon R. Gause, County Recorder
By Paul R. Gause, Deputy
Fee \$ 2.00 Paid cash

06-81-08-00-12