GW 2 — Approved Stock Form—State Publishing Co., Helena, Montana—3931

File No.....

T 11 N R 23 W 7

DUPLICATE

County Mslo

RECEIVED
DEC 31 1964
STATE ENGINEER

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)

Top of Ground

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

0 to 6" Top soil

6"In. to 5' Clay & gravel

5' to 8' Clay & boulders

8' to 22' Clay, gravel, sand & some water

22' to 31' Granite boulders

31' to 35' Clay, gravel & some water

35' to 43' Broken granite

43' to 100' Broken granite

Owner Lolo Hot Springs Resort INC. Address Lolo, Montana

Driller Glenn Camp 705 Alder Address Missoula, Mont

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

Date well started Oct 27, 1964 Date Completed Nov 5, 1964

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	8" 24 lbs to test	16" above G.L.	to 44'-7"	Mills Knife	32'	3 circles
					33'	6 holes
					34'	to circle
					from G.L.	total of 18 holes

N / W / E / S

SE¼ NE¼ Sec. 17 T 11 N R 23 W Missoula Co. Mont.

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 5' feet.

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

Pumping Water Level 37 feet at 6 gal. per minute.

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

How Tested Test pump Length of Test 3½ 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).....

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.

38805.

165

230767

I received and filed this Instrument for record on the 28 day of Dec 19 64 at 9:06 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Carson, County Recorder

By Eileen J. Mason, Deputy

Fee $ 2.00 Paid cck

GW 1 Approved Stock Form—State Publishing Co., Helena, Montana—39089 3

File No. ..... T 11N R 23 W

DUPLICATE County Missoula

RECEIVED
OCT 23 1963
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

U.S. DEPARTMENT OF AGRICULTURE

1. I, U.S. Forest Service, of Lolo Ranger Station Lolo
(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 domestic

(describe lands to be benefited, if for irrigation)

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

1/25 second feet

4. The annual period (inclusive dates) of intended use Jan. 1 - Dec. 31

5. The probable or intended date of first beneficial use July-1926

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

N.A.

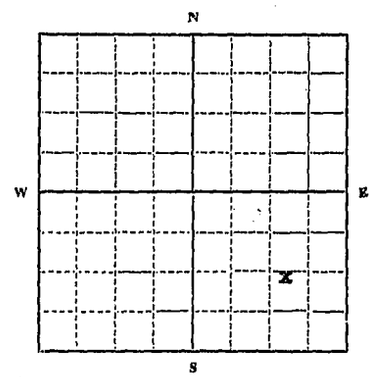
7. The location, type, size and depth of well or wells contemplated

N.A. (Spring)

8. The probable or estimated depth of the water table or artesian aquifier N.A.

9. Name, address and license number of the driller engaged N.A.

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



SE ¼ Sec. 7 T. 11N R. 23W.
Locate well or other means of development as accurately as possible on the plat.

U.S.D.A., Forest Service

Signature of Appropriator William J. Oppen DFR

Date 10/7/63

* 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.

6605

Missoula

Robert V. Bruce

s - is is the agent for

- -

- is

- - - - , s

U.S.D.A., Forest Service

By

21st October

I received and filed this instrument for record on the 21st day of October 19 62
at 3:40 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand.
MARTIN S. BEHNER, County Recorder.
By Deputy
Fee $ Paid

30

GW 1 Approved Stock Form—State Publishing Co., Helena, Montana—39089 3

File No. GW4 SW

T 11 N R 23 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 23 1963
STATE ENGINEER

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

U.S. DEPARTMENT OF AGRICULTURE

1. I, U.S. Forest Service, of Lolo Ranger Station Lolo
(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 watering range stock

(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 1/100 sec. ft.

4. The annual period (inclusive dates) of intended use May 1 - Oct. 15

5. The probable or intended date of first beneficial use June - 1952

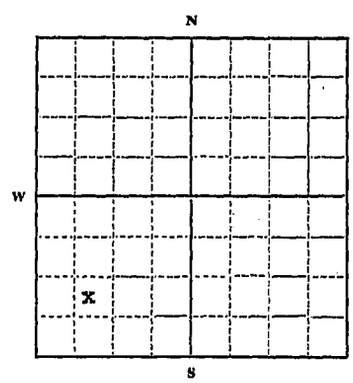
6. The probable or intended date of commencement and completion of the well* or wells* N.A.

7. The location, type, size and depth of well or wells contemplated N.A. (Spring)

8. The probable or estimated depth of the water table or artesian aquifier NA

9. Name, address and license number of the driller engaged N.A.

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



SW ¼ Sec. 8 T. 11N R. 23W
Locate well or other means of development as accurately as possible on the plat.

U.S.D.A., Forest Service

Signature of Appropriator William J. O'Brien DFR.

Date 10/7/63

* 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.

6602

copy

#297

212132

I received and filed this instrument for record on the 21 day of Oct. 1963 at 3:34 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder
By Diana Lehrmann Deputy
Fee $ No fee Paid

GROUNDWATER INDEX

Page ___ of ___

County MISSOULA Twp. 11 NORTH Rge. 22 WEST

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
6	U.S. DEPT. OF AGRICULTURE	GW 1	212136	GWIP NoGW-2
32	U.S. DEPT OF AGRICULTURE	GW 1	212131	

GW 1 Approved Stock Form—State Publishing Co., Helena, Montana—39089 3

File No. ..... T 11 N R 22W

DUPLICATE GWU SW

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 23 1963
STATE ENGINEER

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

U.S. DEPARTMENT OF AGRICULTURE

1. I, U.S. Forest Service (Name of Appropriator), of Lolo Ranger District (Address) Lolo (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 domestic

(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 1/25 sec. ft.

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

5. The probable or intended date of first beneficial use prior to 1938

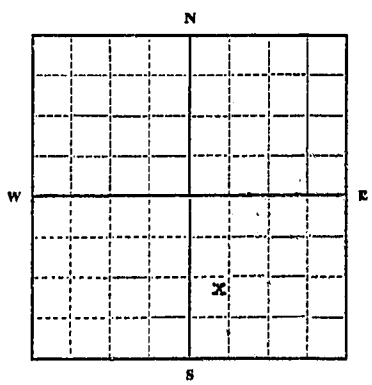
6. The probable or intended date of commencement and completion of the well* or wells* N.A.

7. The location, type, size and depth of well or wells contemplated N.A. (Spring)

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

9. Name, address and license number of the driller engaged N.A.

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



SE 1/4 Sec. 6 T 11N R 22W
Locate well or other means of development as accurately as possible on the plat.
U.S.D.A., Forest Service

Signature of Appropriator William J. Mann DFR

Date 10/16/63

* 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.

6606

Copy

#301

212136

I received and filed this instrument for record on the 21 day of Oct. 1963 at 3:42 o'clock P M., permanent files of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By Deanne Herman Deputy
Fee $ 2.00 Paid

GW 1

Approved Stock Form—State Publishing Co., Helena, Montana—39089 ... 3

File No.....

T. 11N R. 22 W

32

DUPLICATE

SW

GW 4

County. Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 23 1963
STATE ENGINEER

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

U.S. DEPARTMENT OF AGRICULTURE

1. I, U.S. Forest Service, of Lolo Ranger Station Lolo
(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 domestic

(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 1/25 sec. ft.

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

5. The probable or intended date of first beneficial use prior to 1938

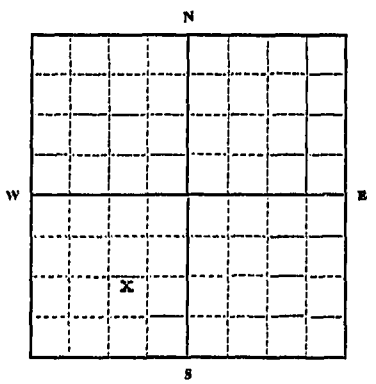
6. The probable or intended date of commencement and completion of the well* or wells* N.A.

7. The location, type, size and depth of well or wells contemplated N.A. (Spring)

8. The probable or estimated depth of the water table or artesian aquifier N.A.

9. Name, address and license number of the driller engaged N.A.

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



SW ¼ Sec. 32 T. 11N R. 22W
Locate well or other means of development as accurately as possible on the plat.
U.S.D.A., Forest Service

Signature of Appropriator William D. Worden DFR

Date 10/8/63

* 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.

6601

296 Copy

212131

I received and filed this instrument for record on the 21st day of Oct 1963 at 3:32 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder
By [illegible] Deputy
Fee $ No Fee Paid

GROUNDWATER INDEX

Page 1 of 1

County MISSOULA Twp. 11 NORTH Rge. 21 WEST

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
1	Pettit, Cecil A.	GW2	285457	
1	Pettit, Cecil A.	GW3	259559	
1	Pettit, Cecil A.	GW1	214881	Filed GW-1's No GW-2
1	JOHNSON, LESTER W	GW4	211677	
1	Leonard, Johnnie & Richard	GW3	214587	—
1	RENFRO, PAUL L. & Richard E.	GW2	291318	
2	Cochrane, John C.	GW4	209925	
2	Leonard, Richard	GW3	214587	See above Sec 1.
2	Phelps, Nadine R.	GW2	301235	
11	Pettit, Cecil A.	GW4	214988	
14	U.S. Dept. of Agriculture	GW1	212134	Filed GW-1's No GW-2
2	Leonard, Richard	GW3	214588	

A B C D

GW 1

File No.....

T 11 N R 21 W

DUPLICATE

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

1. I, CECIL A. PETTIT, 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
APPROXIMATELY 25 ACRES
(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed.....
BETWEEN 50 + 60 MINER'S INCHES

4. The annual period (inclusive dates) of intended use APRIL THRU SEPT.

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

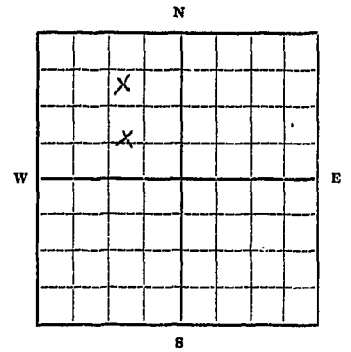
6. The probable or intended date of commencement and completion of the well* or wells* .....
APRIL 1964

7. The location, type, size and depth of well or wells contemplated 6 FEET + WELL
FED BY SPRINGS

8. The probable or estimated depth of the water table or artesian aquifer 10 FEET

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.....
WELL DUG WITH BACKHOE
+ PUMP OUT OF SUMP



NW 1/4 Sec. 1 T. 11 R. 21

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

Signature of Appropriator Cecil A. Pettit

Date 12-24-63

* 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 artifically 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.

15180

214881

Copy

I received and filed this instrument for record on the 26 day of Dec 1963 at 11:05 o'clock A M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHINER, County Recorder
By Martha J. Cathcart Deputy
Fee $ 2.00 Paid

GW 2

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

File No.....

T. 11 R. 21

DUPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED
OCT 20 1969

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

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

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

0-7	Sand & Gravel
7-18	Gravel & Cobblestones Little Water
18-31½	Sand, Gravel & Water

Owner CECIL A. PETTIT Address LOLO, MONTANA

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

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

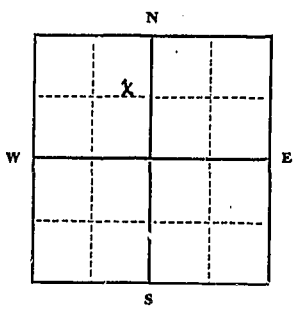
Date well started Sept. 21, 1969 Date completed Sept. 22, 1969

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6" I.D.	6" I.D.	7"				
~~22 x 4~~	17 lb	above	31'6"			
	per ft.	G.L.			none	



NW ¼ Sec. 1 T. 11 R. 21

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

Static Water Level for non-flowing well 6" feet. From G. L.

Shut-in Pressure for Flowing Well.....
S. D. = 10'

Pumping Water Level 16½ feet

at 35 gal. per minute.

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

How Tested AIR COMPRESSOR

Length of Test 4 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

G. Louis Camp
Driller's Signature.

45744

1941 285437

I received and filed this Instrument for record on the 10 day of Oct. 1969 at 1:10 o'clock P.M. in permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Crouse, County Recorder

By M. M. Conaughey, Deputy

Fee $2.00 Paid

GW 3 Approved Stock Form—State Publishing Co., Helena, Montana—42199 5

1/2

File No.....

T. 11 N. R. 21 W.

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 23 1963
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec 20th 1963

Owner Johnnie Mae And Richard G Leonard Address Box 28 Lolo, Montana

Contractor (if any) .....

Address of Contractor .....

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

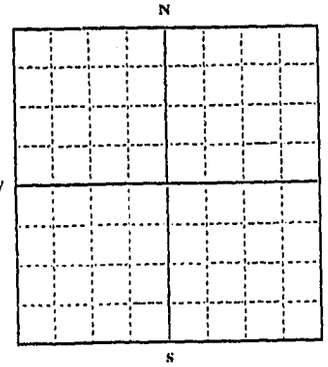
Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable Sub-Irrigation 2 Feet Depth

.....

.....

.....

.....



SE¼NE¼
SW¼NE¼ ¼ Sec. 1&2 T. 11N R. 21 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.....

Sub-Irrigation From 1st May to 1st of November

.....

.....

Signature of Owner.....

Date 20 Dec 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.

11622

470 214587

Copy

I received and filed this instrument for record on the 20 day of June 1963 at 10:30 o'clock A. M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. BEHNER, County Recorder

By [signature] Deputy

Fee $ 4.00 Paid

GW 3 Approved Stock Form—State Publishing Co., Helena, Montana—42262

STATE WATER CONSERVATION BOARD

File No.....

APR 11 1967

T. 11 R. 21

DUPLICATE

County Missoula

Bille McDermott
Butcher McNally
Coyle Marion
Dahlstrom Sullivan
Dickert

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

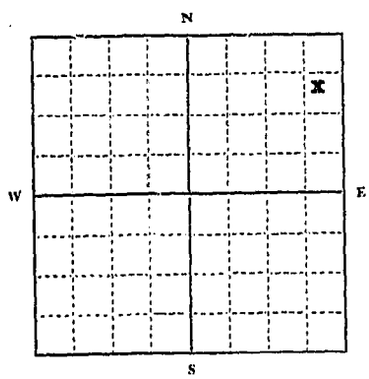
Date of Appropriation of Groundwater 4/7/67

Owner Cecil A. Pettit Address Lolo, Montana

Contractor (if any) None

Address of Contractor None

Date Started 4/7/67 Date Completed Not Completed



SE¼ NE¼ Sec. 1 T. 11 R. 21

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

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

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

One (1) miners inch of water.

Used 365 days per year.

Signature of Owner Cecil A Pettit

Date April 7, 1967

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

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

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

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

F 1693

259557

I received and filed this Instrument for record on the 7 day of Apr 19 67
at 12:15 o'clock P M., permanent files of Missoula County, State of Montana
Witness my hand:
Veronae R. Crouse, County Recorder
By [illegible], Deputy
Fee $ 2.00 Paid

(—Helena Independent Record

File No.....

T. 11 R. 21 West

DUPLICATE

County Missoula

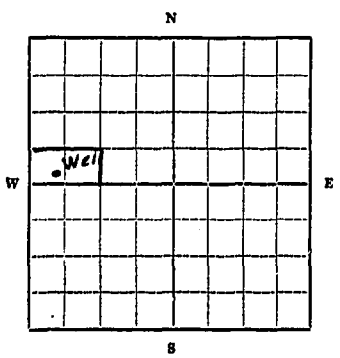
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 9 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Lester W. Johnson (Name of Appropriator), of Star Route (Address) Lolo (Town)
County of Missoula State of Mont. have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW ¼ NW ¼ Sec. 1 T. 11 N R. 21

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

2. The beneficial use on which the claim is based ..... Household and Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been ..... June 20 - 1956 Continuous as needed

4. The amount of groundwater claimed (in miner's inches or gallons per minute) ..... can not estimate

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 ..... approximatly 10 Acres Lester W Johnson

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 ..... June 9 - 1956 - Completed June 20 - 1956

8. The depth of water table ..... 14 ft to water

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" hole 44 ft Deep 1 well only

10. The estimated amount of groundwater withdrawn each year ..... can not estimate

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

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.....

Lester W Johnson

Signature of Owner..... Lester W Johnson

Date Oct 7 - 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.

6293

copy

211677

#280

I received and filed this instrument for record on the 7 day of Oct. 1963 at 2:20 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder
By Barbara Adelhorst Deputy
Fee $ 2.00 Paid

GW 2

MONTANA WATER [illegible] BOARD

RECEIVED

MAY 25 1970

Approved Stock Form—State Publishing Co., Helena, Montana—50551

File No. .....

T 11N R 21W

DUPLICATE

County Missoula

LOG

Top of Ground —

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

0-13 Sand and gravel

13 Static water level

13-25 Sand, gravel, and water

25-36 Sand, gravel, water, and clay

36-41 Sand, gravel, and water

41 Exact depth of bottom

Show exact depth of bottom.

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)

Owner Renfro Construction (Paul L, Richard E Renfro) Address Lolo Creek Road, Lolo, Montana

Driller O.K.O. Drilling Address Box 670, Missoula

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

Date well started May 5, 1970 Date completed May 8, 1970

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

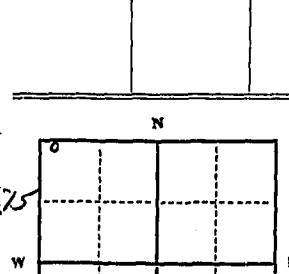
Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" 17#	1 up	41 ft.	----	----	----

Doc. No. 291318

Filed for record this 18 day of May A. D. 1970, at 9:15 o'clock A.M.



NW 1/4 NW 1/4 Sec. 1 T. 11N R. 21W

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

Static Water Level for non-flowing well 13 feet.

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

Pumping Water Level 23 feet at 40 gal. per minute.

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

How Tested Air lift (compressor)

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).

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.

185
Driller's License Number

Charles F. Hollenstein
Driller's Signature.

46481

1988 291318

I received and filed this instrument for record on the 18th day of May 19 70 at 9:15 o'clock A. M., permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Crouse, County Recorder

By M. M. Conaughey, Deputy

Fee $2.00 Paid

Helena Independent Record

2

File No.....

T 11 North 21 west m PM

DUPLICATE

County Missoula

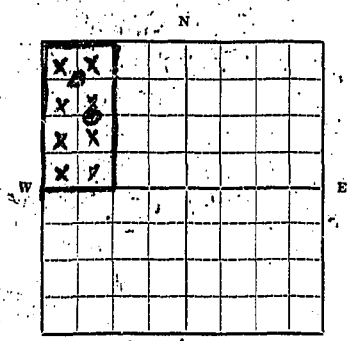
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
AUG 23 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. John C. Cochrane of 511 Woodworth - 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:



O = well & Spring
Lot 4 and
SW 1/4 NW 1/4 Sec. 2 T 11 N R 21 W

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

2. The beneficial use on which the claim is based Water For Home and Garden and Lawn

3. Date or approximate date of earliest beneficial use; and how continuous the use has been August 1952 - Continous since then

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal ¾ HP Deep well Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started in June 1952 - Completed August 1952

8. The depth of water table Some at 40' & another at 87' which is Depth of well

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, 6" Casing, Depth 87'
Also there is a Natural Spring on Property which [redacted] could probably be developed As it has provided water for part of the property And I am working on it Now.

10. The estimated amount of groundwater withdrawn each year Total Not Known

11. The log of formations encountered in the drilling of each well if available Soft Mica formation almost all of Depth

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 60 Miners inches of waters of Mill Creek appropriated 3/1 3/1919 - Book 1 of Water Rights at page 348, Records of Missoula County, Mont.

Signature of Owner John C. Cochrane

Date August 19, 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.

5514

copy

209925

I received and filed this instrument for record on the 21 day of Aug. 19 63
at 1:18 o'clock P M., permanent files
of Missouri County, State of Montana
Witness my hand.
MARTIN S. BEHNER, County Recorder
By Marlene S. Eggs Deputy
Fee $ Paid

GW 3

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

1/2

File No.....

T. 11 N. R. 21 W.

DUPLICATE

County Missoula

RECEIVED
DEC 23 1963
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec 20th 1963

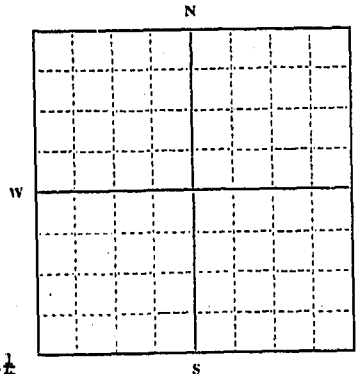
Owner Johnnie Mae And Richard G Leonard Address Box 28 Lolo, Montana

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 Sub-Irrigation 2 Feet Depth



SE¼NE¼
SW¼NE¼ ¼ Sec. 1&2 T. 11N R. 21 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.....

Sub-Irrigation From 1st May to 1st of November

Signature of Owner.....

Date 20 Dec 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.

11622

490

214587

Copy

I received and filed this instrument for record on the 20 day of Dec. 1965 at 10:30 o'clock A. M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder
By ..... Deputy
Fee $ 4.00 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—50551

File No.

DUPLICATE

LOG

T. 11N R. 21W

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Owner Nadine R. Phelps Address Lolo, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 8/12/70 Date completed 9/15/70

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

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

Top of Ground (Elev. above sea level Approx. 3645')

Formations Log:

0 - 10 Gray clay and dirt with boulders mixed in.
10 - 45 Broken rock and boulders imbedded in silt.
45 - 50 Silt and smaller broken rock.
50 - 68 Boulders and broken rock mixed in brown silt. Seeps of water.
68 - 90 Gray broken rock and boulders.
90 - 97 Gray broken rock with stringers of clay.
97 - 126 Gray broken rock.
126 - 163 Dark gray rock.
163 - 166 Gray clay with broken rock imbedded.
166 - 167½ Rock with stringers of clay. Some water.
167½ - 168 Brown rock.
168 - 170 Gray rock.
170 - 173 Tan sandstone.
173 - 177 Gray sandstone.
177 - 184 Granite.
184 - 185 Gray sandstone.
185 - 189 Granite.
189 - 198 Sandstone.
198 - 241 Blue - gray rock. Water.

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8" OD x ⅛"	+2	173'3"	Mills Knife	52	171'7"

N / E / S — X

Static Water Level for non-flowing well 108 feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 236 feet at 8 gal. per minute.

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

How Tested Pump

Length of Test Two hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Casing is perforated from 52' to 171'7" with a Mills Knife. All water entering well through perforations in six inch casing and from cracks and seams in the rock below 205 feet.

SW¼ NW¼ Sec. 2 T. 11N R. 21W

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).

Easterly 165 ft. of lot four (4) and the Easterly 165 ft. of the SW¼, NW¼, Sec. 2, T11N, R21W.

Show exact depth of bottom.
Bottom of well 241'

301235

Filed for record this 8th day of April A.D. 19 71, at 1:15 o'clock P.M.

Water rises in the well 108' to surface.

52
Driller's License Number

William E. Carlson
Driller's Signature.

48339

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.

2110 301235

Received and filed this Instrument for record on the 8th day of April 19 71 at 1:15 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Crouse, County Recorder

By M. M. Cavanaugh Deputy

Fee $1.00 Paid

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

File No.....

T. 11 N R. 21 W

DUPLICATE

County Missoula

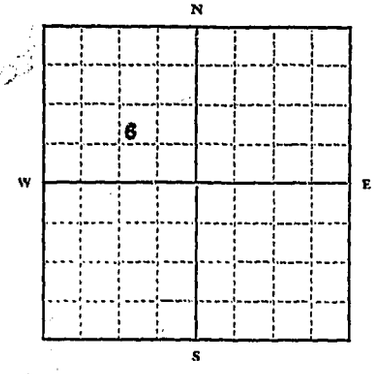
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Cecil A. Pettit, of BOX 100, 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:



NW ¼ 1 Sec 11 T. 21 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 & Irrigation

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 250 Gallons per hour.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
½ Acre of lawn, garden, and orchard
Cecil A. Pettit.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric Pump
(location on map shown as 6)

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1950

8. The depth of water table 6'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater One (1) 7' hand dug well.

10. The estimated amount of groundwater withdrawn each year 95000 Gallons a year Approx.

11. The log of formations encountered in the drilling of each well if available Hand dug all 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 Cecil A. Pettit

Date 12-27-1963

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

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

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

15231

GW 1 Approved Stock Form—State Publishing Co., Helena, Montana—39089 3

14

File No. GW 4 : 72

T. 11 N R. 21 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 23 1963
STATE ENGINEER

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

U.S. DEPARTMENT OF AGRICULTURE

1. I, U.S. Forest Service (Name of Appropriator), of Lolo Ranger Station (Address) Lolo (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 domestic

(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 1/25 sec. ft.

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

5. The probable or intended date of first beneficial use June - 1958

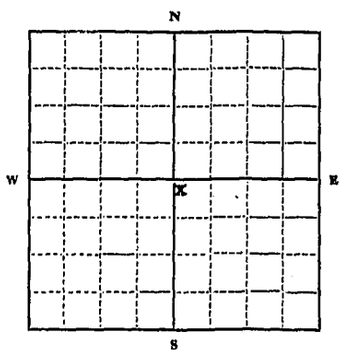
6. The probable or intended date of commencement and completion of the well* or wells* N.A.

7. The location, type, size and depth of well or wells contemplated N.A. (Spring)

8. The probable or estimated depth of the water table or artesian aquifier N.A.

9. Name, address and license number of the driller engaged N.A.

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



SE ¼ Sec. 14 T. 11N R. 21W

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

Signature of Appropriator U.S.D.A., Forest Service William J. Mason DFR.

Date 10/c/63

* 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.

6604

#229 copy 21234

I received and filed this instrument for record on the 21 day of Dec 1963 at 3:35 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. BEHNER, County Recorder

By Diane Lehman Deputy

Fee $ No fee Paid

W 3 Approved Stock Form—State Publishing Co., Helena, Montana—42199 3 2.

File No.....

T. 11N R. 21W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 23 1963
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

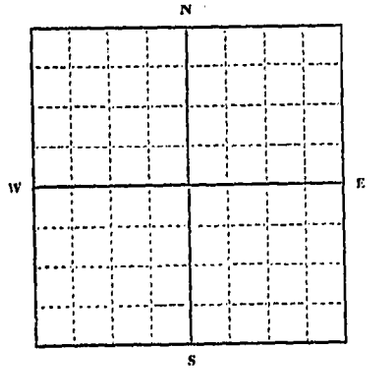
Date of Appropriation of Groundwater 1936

Owner Johnnie Mae and Richard G. Leonard Address Box 28 Lolo, Mont.

Contractor (if any) .....

Address of Contractor .....

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



.....¼..... Sec..... T..... R.....

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

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

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 Water from John Creek, And 15 Inches from lolo creek Pump and Irrigation ditch

Signature of Owner.....
Richard G. Leonard

Date 20th Dec 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.

11623

171

2145588

Copy

I received and filed this instrument for record on the 20 day of Dec 1963 at 10:35 o'clock A. M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder
By [signature] Deputy
Fee $ 2.00 Paid

Mr. Richard Leonard, Box 28, Lolo, Montana

May 15, 1964

12/20/63

214588

from Lolo Creek

GROUNDWATER INDEX

County MISSOULA Twp. 11 North Rge. 20 West

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
3	Tucker, Edna	GW3	201016	
4	Laing, Robert H.	GW1	201653	Filed GW-1's No GW-2
5	Baker, Lacey	GW4	215228	
5	Florin, William	GW2	321763	
5	Holmes, Gary	GW2	331017	
5	Jorgenson, Richard	GW2	322733	
5	Peterson, Deloris Mon	GW2	250132	
5	Prewall, Albert	GW2	245162	
6	Smith, Merlin	1957 Dog	164612	
8	U.S. Dept. of Agri	GWP	22137	
10	Schroeder, John	GW3	214505	
11	Maclay, David	GW4	1192	
11	Maclay, S.S.	GW2	164	
14	Maclay, Holmes	GW4	214752	
14	Maclay, Holmes	GW4	214751	
14	Maclay Ranch	GW2	332287	
15	Roberts, Gail A.	GW2	334156	
15	Roberts, Gail A.	GW2	334157	
15	Roberts, Gail A.	GW2	334158	
23	Hurst, Josephine B	GW4	1223	
23	Hurst, Josephine B	GW3	1219	
25	Jarvis, Arnold	GW2	332033	
25	Lawrence, Darryl	GW2	289757	
25	Lawrence, Darryl	GW2	289758	
25	Lawrence, Donna	GW1	334097	Filed GW-1's No GW-2
25	Lawrence, Donna	GW2	334095	or 334195
25	Nichols, Gordon A	GW2	300438	
25	Ogilvie, Alex N.	GW3	215201	
25	Ogilvie, Alex N.	GW3	215200	
25	Ogilvie, Alex N.	GW4	215242	
25	Roberts, Gail A.	GW2	334159	
25	Troell, Jones	GW2	334821	
26	Carlton Cemetary Dist.	GW2	261706	
26	Carlton Cemetery Dist.	GW2	232789	
26	Davis, Norman M	GW2	328947	
26	Eigenmann, Emil J	GW4	215458	
26	Heron, Carol	GW2	283608	
26	Kilburn, Vera M	GW2	321599	
26	Holmes, Archie J	GW2	237140	
26	Holmes, Archie	GW4	215665	
26	Kalwarth, Melvin	GW2	291991	
26	Kane, Kenneth	GW2	296496	
26	Kane, Kenneth	GW2	324873	
26	Kaser, Howard	GW3	216600	
26	Kusk, Helend L.	GW2	237966	
26	Wold, Don	GW2	289183	

E F G H

Approved Stock Form—State Publishing Co., Helena, Montana—38496

File No. NW¼ SW¼

T. 11 N R. 20 W

DUPLICATE

County Missoula

RECEIVED
DEC 28 1962
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

SW

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

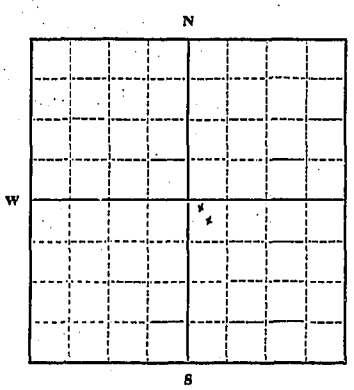
Date of Appropriation of Groundwater December, 1921

Owner Edna Tucker Address Lolo, Montana

Contractor (if any) .....

Address of Contractor .....

Date Started prior to 1921 Date Completed December, 1921



¼ Sec. 3 T. 11 R. 20

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

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Water from spring in NW¼ NW¼ SE¼ of Sec.3, T11 NR20W M.M., thence running in 2" pipe in Northerly direction for approximately 350 ft yd. to 2 water troughs for livestock and branch pipe running Easterly to house, year, & garden of the appropriator; also stream from same spring running in Northerly direction to reservoir from which a stream runs to a pasture where the water is used for irrigation.*

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

* The total appropriation being 25 miner's inches, continuous flow, or 4.67 gallons per second. Said appropriation was made by appropriator's predecessor prior to 1921, but the spring was improved and the flow of water increased in 1921, with continuous flow thereafter.

Signature of Owner Edna Tucker

Date Dec. 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.

2897

#18 201016

I received and filed this instrument for record on the 21 day of Dec 1962 at 4:20 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. CEHNER, County Recorder
By Joleen Bello Deputy
Fee $ 2.00 Paid

GW

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

File No.....

T. 11 N R. 20 W 35

DUPLICATE

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

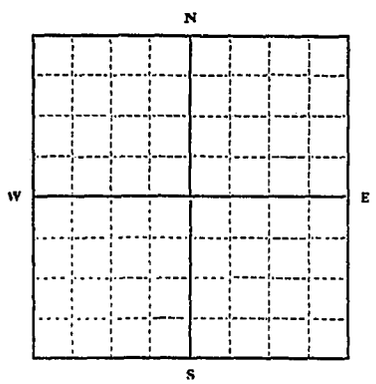
RECEIVED
JAN 3 1964
STATE ...

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Larry M. Baker + B. Faye Baker, 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:



N ½ of ¼ NW ¼ Sec. 5 T. 11 N R. 20 W

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.
Unable to locate as only own 3½ acres

2. The beneficial use on which the claim is based Home use, drinking & irrigation of lawn

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Not applicable

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Not applicable
700 gal. per Min.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
about ¼ acre of lawn & flowers
Owner - self

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pumps
located on North porch near South line on Lot 2 of Allen Acres

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Not applicable

8. The depth of water table Not applicable

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
Type - electric
Size - Not applicable
Depth - Either 60 or 80 feet

10. The estimated amount of groundwater withdrawn each year 300,000 gal.

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

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

Signature of Owner Larry M. Baker
B. Faye Baker
Date 12-27-63

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

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

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

20019

8 20 21-228

I received and filed this instrument for record on the 20 day of Oct 1963
at 2 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARGARET SEDGWICK Recorder
By Mail Deputy
Fee $ Rec Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
SEP 11 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

5

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 William A. & Gertrude S. Florin

Address Lolo Creek Road
Lolo, Montana

Date well started 10/21/64
completed 10/24/64

For Administrator's Use
File 2328-321763
Sept. 7, 1972 - 1:00 p.m.
GW 1

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

Equipment used Cable Tool Rig (Churn drill, rotary or other)

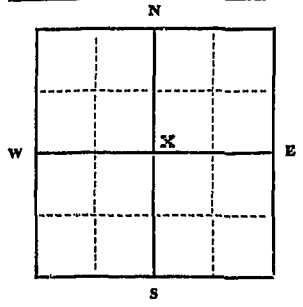
Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☒
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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). Allen Acres Addition, Lot 14 Approximately 3.7 Acres

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6'	6 5/8" OD x ¼"	0	48	N	O N	E



SW¼ NE¼ Sec. 5
T. 11 N R. 20 E W

Static water level 20 ft.*
Pumping water level 39 ft.*
at 30 gallons per minute,
measured 180 minutes after pumping began.
*Measured from ground level.
Well developed by Air Lift Pump for three hours.
Power Gas Pump 30 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well through open bottom of 6 inch casing.

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

LIBERTY DRILLING COMPANY
Driller's Signature
2500 Reserve
Driller's Address
Missoula, Montana LICENSE NO. 52

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) 3500'

From (Feet)	To (Feet)	
0	3	Black topsoil
3	9	Black dirt, some gravel
9	13	Cemented sand & gravel
13	18	Sand & gravel imbedded in clay
18	21	Fine sand, seeps
21	27	Gravel tightly compacted in sand
27	42	Sand & gravel imbedded in clay
42	45	Fine sand & small gravel. Some sandy water.
45	48	Clean coarse gravel. Water.

48 ft. Show exact depth of bottom
Water rises in the well 20 feet from surface.

51,335

#2328

321763

I received and filed this Instrument for record on the 7 day of Sept 1971 at 1:00 o'clock P.M. permanent files of Missoula County, State of Montana

Witness my hand

Veramae R. Crouse, County Recorder

By _____ Deputy

Fee $2.00 Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
APR 26 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Missou Ravalli 5

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 Gary Holms

Address Lolo, Montana

Date well started April 6, 1973

completed April 9, 1973

For Administrator's Use
File 2468, 331017
April 23, 1973
GW 1 3:00 p.m.

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

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

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

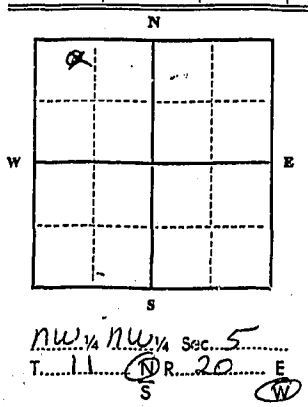
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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"	17#/ft	0	78	3/16x5	68	78



NW¼ NW¼ Sec. 5
T. 11 (N) S R. 20 E (W)

Static water level 52 ft.*
Pumping water level 75 ft.*
at 30 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by bailing
for 12 hours.
Power..... Pump..... HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Driller's Signature Charles Wroble Jr.

Driller's Address Ravalli Drilling Co., Victor, Mont.

LICENSE NO. 200

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	1	Topsoil
1	46	sand gravel tight pressed
46	78	sand gravel water bearing

78 Show exact depth of bottom

53,000

2468 331017

I received and filed this instrument for record on the 23 day of Aug., 1979 at 3:00 o'clock P.M., and recorded in Book files of Missoula County, State of Montana
Witness my hand and seal
Dorothy L. Neal, County Recorder
By Mary Skalsky, Deputy
Fee $ 2.00 Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
OCT 6 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES

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 Estate of Richard H. Jorgensen

Address P. O. Box 1471

Missoula, Montana

Date well started 5/25/71

completed 6/3/71

For Administrator's Use
File #2342; 322733
Sept. 29, 1972 1:30 p.m.
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). Approx. 4 4/10 acres

ESTIMATED ANNUAL WITHDRAWAL 31,536,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8" OD x 1/4"	+2'4"	65'	Mills Knife	43'	53'

N / W / E / S — X

NW ¼ NW ¼ Sec. 5
T. 11 N R. 20 E/W

Static water level 17'6" ft.*
Pumping water level 21 ft.*
at 60 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Air Lift Pump for 5 hours.
Power ..... Pump ..... HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well through perforations in six inch casing. (Con't)

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

Missoula, Montana LICENSE NO. 52

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) 3275'

From (Feet)	To (Feet)	
0	10	Fine sand and coarse gravel
10	31	Sand and gravel mixed in brown dirt
31	36	Fine silty sand and gravel
36	43	Fine sand and gravel
43	56	Boulders and coarse sand
56	61	Light tan clay, gravel and boulders
61	64	Tan rock and gravel
64	70	Grey rock-like sandstone

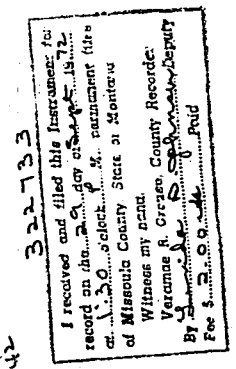
70 Show exact depth of bottom

Water rises in well 17'6" from surface.

51,544

(Con't)

Note: 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 rates not in excess of 50 to 60 percent of the tested capacity of the aquifer.



#23412

GW 2

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

File No.....

STATE WATER CONSERVATION BOARD

T. 11N. R. 20W. 5

DUPLICATE

MAY 12 1956

County Missoula

Bille McDermott
Butzerin McNulty
Coyle Merton
Darlinton Sullivan

LCG

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 Approx. 3412')

Formations Log:

0 - 1 Black dirt & gravel.
1 - 9 Cobblestones & gravel.
9 - 15 Gravel imbedded in tan clay.
15 - 28 Tan sand mixed with gravel.
28 - 57 Yellow sand & gravel.
57 - 76 Fine brown sand & gravel. Water
76 - 78 Clean coarse sand & gravel. Water.

Water rises in well 53 feet from surface

Show exact depth of bottom.

Bottom of hole 78'

Delores &/or
Owner Donald D. Peterson Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None - filed

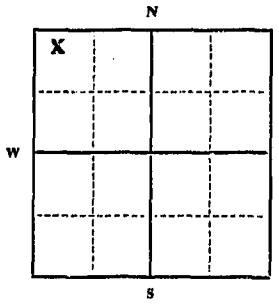
Date well started 4/28/66 Date completed 5/2/66

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

Water use: Domestic [X] Municipal [ ] Stock [X] Irrigation [X]
Industrial [ ] Drainage [ ] Other [ ]

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8"OD x ¼"	+1	78	NONE		



Static Water Level for non-flowing well 53 feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 68 feet

at 30 gal. per minute.

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

How Tested Air Lift Pump

Length of Test Two hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through open bottom of six inch casing. Wells with open bottom completions 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 (Continue on reverse side)

NW ¼ Sec. 5 T. 11N. R. 20W

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

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

Three and One Half Acres

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

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

52
Driller's License Number

William F. Osborne
Driller's Signature

41039

25 0132

I received and filed this Instrument for record on the 10 day of May 1966 at 1:10 o'clock P M., and recorded in Book of Missoula County, State of Montana.

Witness my hand

Veramae R. Crouse, County Recorder

By Elsie J. Mace, Deputy

Fee $ 2.00 Paid cash

rates less than 25 to 50 percent of the tested capacity of the aquifer.

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—39318

File No. STATE WATER CONSERVATION BOARD

T 11 N R 20 W 5

DUPLICATE DEC 28 1965

County MISSOULA

Billi... McDermott
Butter n ... McNulty
Cov... Morton
Darlinton ... Sullivan
Dickert

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground
(Elev. above sea level)

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Well on Lot #1 Allen Acreas ,3 miles W. of Lolo

Owner Albart Frowalt Address 2403 Woodland Dr

Driller Glenn Camp 705 Alder Address Missoula,Mont

Date of Notice of Appropriation of Groundwater

Date well started 11/6/64 Date Completed 11/10/64

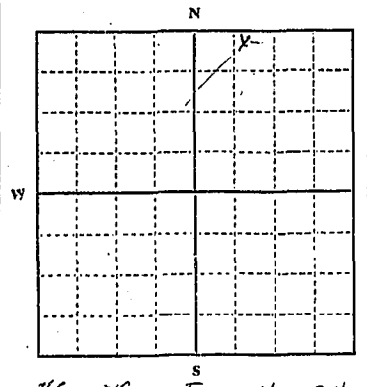
Type of well Drilled (dug, driven, bored or drilled) Equipment Used Churn drill (Churn, drill, rotary or other)

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

0 to 8' Silt
8' to 21' Sand & gravel
21' to 34' Clay & gravel
34' to 43' Sandy clay & a little water
43' to 48' Clay, lg. gravel and a little water
48' to 50' 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)
5"	5" I.D. 14.62# to foot	1' above pit floor	43'	None		



NE¼ NE Sec. 5 T. 11 R. 20
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 32' from G.L. feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 35 feet at 20 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Test pump Length of Test 1 hr

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

License # 7
Driller's License Number

G. 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.

40156

#1542

245162

I received and filed this Instrument for record on the 23 day of Dec 1965 at 9:15 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Crouse, County Recorder

By Doretta A. Runnamy Deputy

Fee $ 2.00 Paid

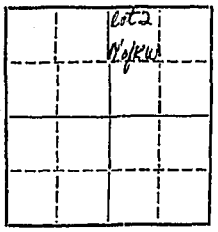
RECEIVED
SEP 18 1959
STATE ENGINEER

T.____ R.____ 6

County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG



Owner Marlin Smith Address

Driller John Farrell Address Arlee

Date Started 8-13-1959 Date Completed 8-13-1959

Location: Sec. 6 T. 11 R. 20 ¼ sec.

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

Water use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]
Industrial [ ] Drainage [ ] Other:

Casing: 6 ft. to 34 ft. Type 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: 13 feet.

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

Pumping water level 20 feet at 21 gal. per min.

How tested: Bailer

Length of test 1 Hr.

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

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	6	pit
6	30	gravel sand
30	34	water gravel

I received and filed this instrument for record on the 15 day of Sept. 1957 at 3:15 o'clock P. M. permanent files of Missoula County, State of Montana

Witness my hand.

Marion S. Pettyjohn, County Recorder

By Quentin Smith Deputy

Fee $ 1.00 Paid

46

164612

Copy

2

GW 1 Approved Stock Form—State Publishing Co., Helena, Montana—39089 3

File No. SW GW 4 T. 11 N R. 20 W 8

DUPLICATE County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 23 1963
STATE ENGINEER

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

U.S. DEPARTMENT OF AGRICULTURE

1. I, U.S. Forest Service (Name of Appropriator), of Lolo Ranger Station (Address) Lolo (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 watering range stock

(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 1/100 sec. ft.

4. The annual period (inclusive dates) of intended use May 1 - Oct. 10

5. The probable or intended date of first beneficial use June - 1938

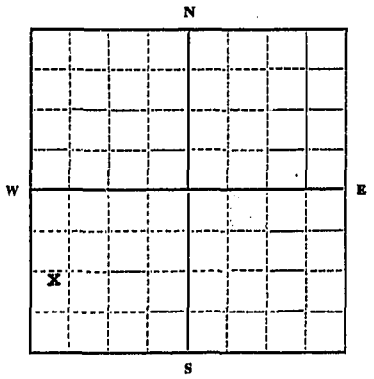
6. The probable or intended date of commencement and completion of the well* or wells* N.A.

7. The location, type, size and depth of well or wells contemplated N.A. (Spring)

8. The probable or estimated depth of the water table or artesian aquifier N.A.

9. Name, address and license number of the driller engaged N.A.

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



SW ¼ Sec. 8 T. 11N R. 20W
Locate well or other means of development as accurately as possible on the plat.

U.S.D.A., Forest Service
Signature of Appropriator [signature] DFR.

Date 10/21/63

* 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.

6607

#302

Copy

212137

I received and filed this instrument for record on the 21st day of Oct 1963 at 3:44 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder

By Leona Crowe Deputy

Fee $ No Fee Paid

GW 3

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

10

File No.....

T. 11 N R. 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 20 1963
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

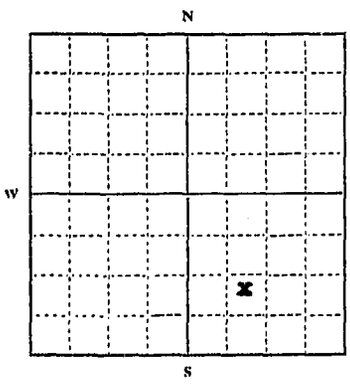
Date of Appropriation of Groundwater June 15, 1896

Owner John M & Helen Schroeder Address LoLo, Montana

Contractor (if any) none

Address of Contractor .....

Date Started June 15, 1896 Date Completed 7 / 15 / 1896



SE ¼ Sec. 10 T. 11 R. 20

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

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring emerges from outcrop and runs approximately 150 feet into reservoir above earth fill dam. Water used for stock water and garden irrigation

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 steady flow of 20 gallons per minute

Signature of Owner John M. Schroeder
Helen Mackay Schroeder

Date December 18, 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.

10902

440

214505

Copy

I received and filed this instrument for record on the 19 day of Dec 1963 at 10:05 o'clock A. M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder

By [signature] Deputy

Fee $ 2.00 Paid

GW.

Approved Stock Form—State Publishing Co., Helena, Montana—42234 Rev. No. 3

File No.....

T. 11 N R. 20 W.

DUPLICATE

County Missoula

RECEIVED JAN 3 1964

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

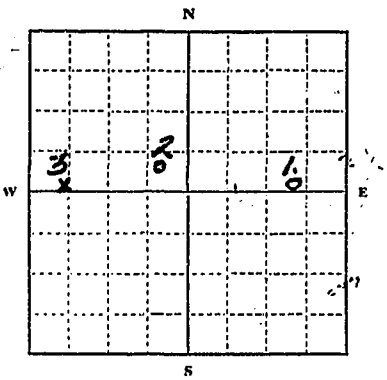
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. G.S. ~ David J. MacKay, of Lo Lo, 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:



.....¼..... Sec..... T..... R.....

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been June, 1940 – used continuously

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 Montana Miner's inches from each Nos. 1 & 2 and 1 miners inch from No 3.

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. 1 well irrigates 60A. No 2 well irrigates 40A. No 3 well " 2 A. of yard & garden.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Wells located, as shown, in S½ S½ N½ Sec 11, T11N, R20W water withdrawn by centrifugal pump at No 1 & No 2 No 3 has an automatic electric pressure system.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater May 1940 began, completed June 1940.

8. The depth of water table Mean depth approx 7' at No 1 & No 2; 27' at No 3.

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 No 1 & No 2 are excavated by bulldozer To 3' below mean depth each is 30' wide x 60 long. No 3 is a driven pipe To a depth of 36' pipe is 6" in diameter.

10. The estimated amount of groundwater withdrawn each year 100 Miner's inches continuous flow from each of No 1 & 2 for 2 mo per year. 15 Miner's inches from No 3 for 12 Months per year.

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

Signature of Owner David J. MacKay

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.

2031

119w

Copy

713 31 P Dec 63

permanent files
of Missoula County, State of Montana
Witness my hand and seal

By Martha L Bell County Recorder
Deputy

Fee $ 2.00 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—39315

File No.....

T. 11 N R 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 31 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground Approx.
(Elev. above sea level 3,187)

0 - 3 Black dirt.
3 - 37 Sand & gravel.
37 - 46 Sand.
46 - 58 Sand with scattered gravels imbedded First water.
58 - 67 Sand & gravel imbedded in tan clay.
67 - 72 Fine sand.
72 - 75 Coarse sand & gravel. Seeps of water.
75 - 79 Clean Coarse gravel. Water.

Owner Charlotte S. Maclay
S. S. Maclay Address Lolo, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of Appropriation of Groundwater Non-filed

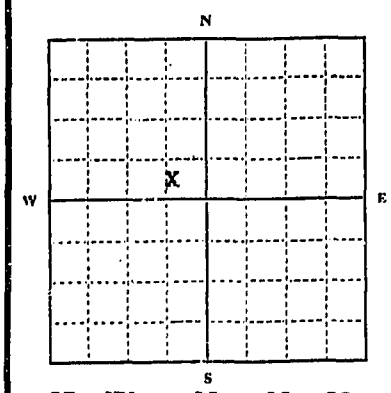
Date well started Nov. 18, 1964 Date Completed Nov. 20, 1964

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8 OD by ¼"	+1½	79	NONE		



SE ¼NW Sec. 11 T. 11 R20
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 7½ feet.

Shut-in Pressure for Flowing Well Non-flowing

Pumping Water Level 30 feet at 50 gal. per minute.

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

How Tested Airlift pump Length of Test 4 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) All water is entering the well through the open bottom of the six inch casing.

Show exact depth of bottom.

Bottom of hole 79 feet

52
Driller's License Number

William F. Osborne
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.

38804.