1025

215499

I received and filed this instrument for record on the 31 day of Dec. 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 MARTIN S. Behner Deputy

Fee $ 2.00 Paid.

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

35

File No.....

T 12 N R 20 W.

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964
STATE ENGINEER

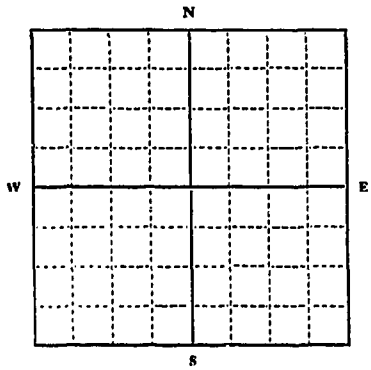
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Fred E. Kester, of Lolo Mont
(Name of Appropriator) (Address) (Town)

County of Missoula State of Mont

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



¼ Sec. 35 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 - live stock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
about 1940

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

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

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

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

8. The depth of water table 35

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
Electric Pump. 1 horse power

10. The estimated amount of groundwater withdrawn each year do not know

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

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

Signature of Owner Fred E. Kester

Date Dec 31-63

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

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

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

20143

1023

~~1023~~

215497

I received and filed this instrument for record on the 31 day of Dec 1963 at 3:15 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand

MARTIN S. BEHNER, County Recorder

By MARTIN S. BEHNER Deputy

Fee $ 7.00 Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

MONTANA WATER RESOURCES BOARD
RECEIVED
DEC 6 1971

County Missoula 35

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 Walter V. Lane
Helen E. Lane

Address Ann's Drive, Box 364
Lolo, Montana

For Administrator's Use
File 310133 December 1, 1971 10:30 AM
GW 1

Date well started 10/13/62

completed 10/13/62

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

Equipment used Cable Tools (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☐

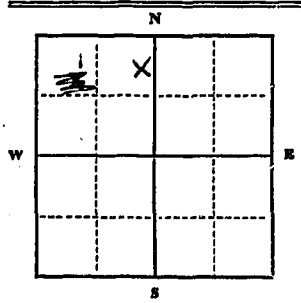
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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 21,025,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
5"	5½" OD x ¼"	7'	65'	NONE		



NE ¼ NW ¼ Sec. 35
T. 12 N (S) R. 20 E (W)

Static water level 33 ft.*
Pumping water level 57 ft.*
at 40 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Air Lift Pump
for 2 hours.
Power Gas Pump 30 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) All water is entering the well through the open bottom of the five inch casing.

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

Driller's Signature LIBERTY DRILLING COMPANY [signature]

Driller's Address 2500 Reserve Street
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) 3190

From (Feet)	To (Feet)	
0	7	Pit
7	32	Clayey gravel
32	38	Fine sand and gravel. Some water
38	42	Gravel imbedded in tan clay
42	58	Fine sand and some scattered gravels. Some water
58	61	Sand and gravel. Water
61	65	Clean coarse sand and gravel. Good water
65		Bottom of well

65' Show exact depth of bottom

Water rises in well 33' from surface.

49545

#2209

310133

I received and filed this instrument for record on the 1 day of Dec. 1971 at 10:30 o'clock A.M. permanent files of Missoula County State of Montana

Witness my hand

Vardman R. Crouse, County Recorder

By Marie Nuckolls Deputy

Fee $ 2.00 Cash Paid

4—Helena Independent Record

File No.....

T. 12 N R. 20 W 35

DUPLICATE

County.....

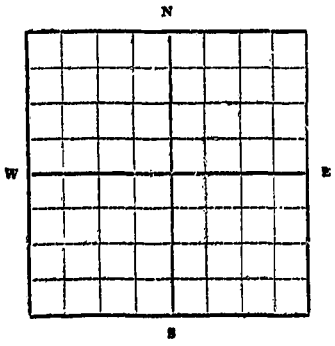
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. NORMAN W. LARSON (Name of Appropriator), of Box 23 (Address) Lolo (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 ¼ Sec 35 T 12 R 20

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

Point of Diversion
Place of use

2. The beneficial use on which the claim is based Sprinkler irrigation

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 200 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 40 acres ajoining sump and owned by self

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 7½ horse electric pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater May 1, 1950 to May 7, 1950

8. The depth of water table 8 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater open pit 12 x 20 feet--11 feet deep

10. The estimated amount of groundwater withdrawn each year 1 to 6 million gallons

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

Signature of Owner Norman W. Larson

Date December 31, 1963

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

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

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

20227

1107

I received the within instrument for record this 31 day of Dec 1963 at 4:58 o'clock P.M. and entered in permanent files of Missoula County, State of Montana

Witness my hand

County Recorder

By Martha J. Blan Deputy

Fee $ 7.00 Paid

WATER CONSERVATION BOARD

GW 2

FEB 1 1965

35

Approved Stock Form—State Publishing Co., Helena, Montana—42329

File No.....

DUPLICATE

LOG

Bill ..... McDermott
Bu ..... McNally
Co ..... Morton
Dorrington ..... Sullivan
Dickey .....

T. 12N R. 20W

County Missoula

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 Approx.

(Elev. above sea level 3187')

Formation Log:

0 - 2 Black dirt.
2 - 15 Cemented sand and gravel.
15 - 27 Sand & gravel imbedded in clay.
27 - 35 Gravel tightly compacted in sand.
35 - 40 Sand & gravel. Some sandy water.
40 - 42 Clean coarse gravel. Water.

Owner Sigrid G. and/or Norman W. Larson Address Lolo, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None-filed

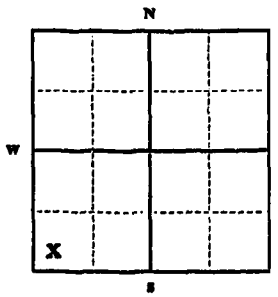
Date well started 4/27/65 Date completed 4/29/65

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 ☒

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	0'	42'	N	O N E	



SW ¼ Sec. 35 T. 12N R. 20W

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

Static Water Level for non-flowing well 10 feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 34 feet at 60 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 through open bottom of six inch casing.

(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).

Five acres

Show exact depth of bottom.

Bottom of hole 42'

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

40790

1567

746350

I received and filed this instrument for record on the 27 day of June 19 66 at 1:07 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand

Veronica R. Crouse, County Recorder

By ....., Deputy

Fee $ 2.00 ..... Paid cash

GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Missoula 35

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

RECEIVED
APR 19 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

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 E. & Karen A. Larson

Address: Box 28, Lolo, Montana

Date well started: 10/27/72

completed: 11/ 6/72

For Administrator's Use	
File	2459,330674
	April 16, 1973
GW 1	
	12:05 p.m.

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

Equipment used: Cable Tools (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock* ☐ Irrigation* ☐

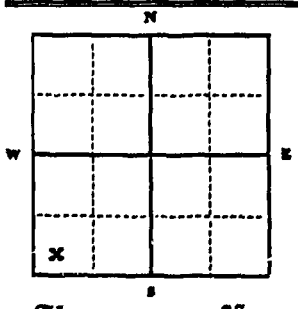
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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. 20 acres

ESTIMATED ANNUAL WITHDRAWAL 52,560,000 gallons

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6⅝" OD x ¼"	Plus 2	63	N O N E		



SW ¼ ¼ Sec. 35
T. 12N N R. 20W
S W

Static water level 7 ft.*
Pumping water level 15 ft.*
at 100 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 six inch casing. Wells in this area can be depended cont'd

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

Driller's Signature: [signature]

Driller's Address: LIBERTY DRILLING COMPANY, 2500 Reserve Street, 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) 3187'

From (Feet)	To (Feet)	
0	5	Sandy topsoil
5	18	Sandy soil with gravel mixed in
18	41	Claybound gravel
41	50	Fine sand and gravel
50	59	Sand and gravel. Some water
59	61	Sand and gravel with stringers of clay
61	63	Clean coarse gravel. Water

63 Show exact depth of bottom

Water rises in well seven feet from surface

52,938

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.

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—43642

File No. .....

T. 12N R. 20W 35

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 Approx. 3187' .....)

Formations Log:

0 - 2 Black dirt.
2 - 23 Fine sand & gravel.
23 - 31 Sand & gravel imbedded in tan silt.
31 - 39 Tan silty clay.
39 - 58 Fine tan to brown sand.
58 - 64 Fine to coarse gray sand & gravel.
64 - 70 Clean coarse sand and gravel. Water.

Owner Lolo Lions Club Address Lolo, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

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

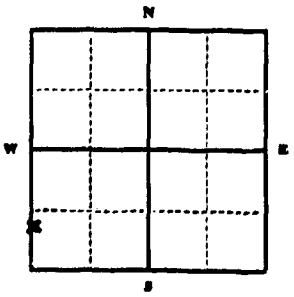
Type of well Driven (Dug, driven, bored or drilled) Equipment used Well Driving Rig (Churn drill, rotary or other)

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	Perforations From (Feet)	Perforations To (Feet)
6"	6 5/8" OD x ¼"	0	70	Torch Cut	62'6"	65'6"

Water rises in the well 11 feet from surface.



Static Water Level for non-flowing well 11 feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 41 feet at 75 gal. per minute.

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

How Tested Air Lift Pump

Length of Test Nine hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through perforations in the 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 rates not in excess of 25 to 50% of the potential capacity of the aquifer.

W½ ¼M Sec 35 T. 12N 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).

11½ Acres

Show exact depth of bottom.

Bottom of hole 70'

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 F. Cabrne
Driller's Signature.

44,294

1806 272711

I received and filed this Instrument for record on the 5 day of July 1978 at 2:00 o'clock P M permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Crouse, County Recorder

By M. M. Cravens Deputy

Fee $2.00 Paid

4—Helena Independent Record

File No.....

DUPLICATE

T. 12 N R. 20 W

County MISSOULA

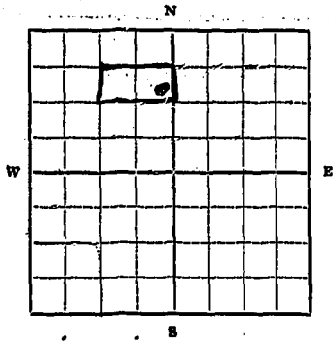
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAR 12 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. WALTER McCARTY, 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:



S½, NE¼, NW¼
¼ Sec. 35 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 Business, residence, drinking, stock & irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been since June 1, 1950, and continuous to and including the present.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 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 Same area as shown on map and owned by Walter McCarty.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Meyers deep well pump from about 82 feet, corner Ted's Bar bldg. Lolo, Montana.

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

8. The depth of water table Approximately 21 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 Meyers deep well pump at between 80 and 100 feet. No other well presently in place but additional wells are contemplated.

10. The estimated amount of groundwater withdrawn each year 730,000 Gallons.(Approx.)

11. The log of formations encountered in the drilling of each well if available None available. Driller is deceased and records lost.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record This well is located in an expanding business area in Lolo, Montana and the continued use of the water is important to business and economic progress in the community.

Signature of Owner Walter McCarty

Date Dec. 15, 1963

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

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

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

35444

1395 218496

Copy

I received and filed this instrument for record on the 5 day of Mar. 1969 at 10:40 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder
By Ethel Lasse Deputy
Fee $ 5.00 Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Missoula 39

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

RECEIVED
MAR 19 1973
DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

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 Frank R. Meckler

Address 120 Ann Drive
Lolo, Montana 59847

Date well started 11/11/71
completed 12/ 4/71

For Administrator's Use
File 33059 ; 2457
April 13, 1973
GW 1 2:20 PM

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

Equipment used Cable Tools (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☒

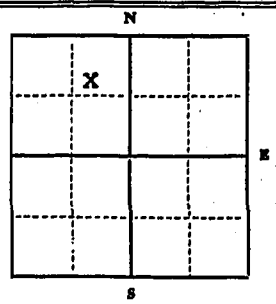
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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). Lot 4, Block 1, Hughes Addition

ESTIMATED ANNUAL WITHDRAWAL 26,280,000 gallons

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 ½"	Plus 2	68	N O N E		



NE ¼ NW ¼ Sec. 35
T. 12 N R. 20 E
S W

Static water level 30 ft.*
Pumping water level 45 ft.*
at 50 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 50 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 cont'd

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

Driller's Signature William T. Calvine
LIBERTY DRILLING COMPANY

Driller's Address 2500 Reserve Street
Missoula, Montana 59801 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) 3180'

From (Feet)	To (Feet)	
0	8	Brown dirt with gravel and cobblestones mixed in
8	18	Sand and gravel imbedded in tan silt
18	24	Gravel mixed in tan clay
24	32	Gravel imbedded in tan clay
32	51	Silty sand and gravel
51	61	Fine silty sand and gravel
61	65	Silty sand and gravel. Some water
65	68	Clean coarse sand and gravel. Water

68' Show exact depth of bottom

Water rises in well 30 feet from surface.

52,944

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.

33059

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4047.

35

File No.....

T. 12N R. 20W

DUPLICATE

County Missoula

RECEIVED

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 Approx. 3250')

0 - 29 Sand, gravel and cobblestones mixed in tan clay.
29 - 36 Silty sand. Some water.
36 - 41 Tan clay. Some gravel imbedded.
41 - 67 Silty sand. Some water.
67 - 72 Clean coarse sand and gravel. Water. Water rises to 33½ feet from surface.

Owner Ross P. Middlemist Address Lolo, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of Appropriation of Groundwater None filed

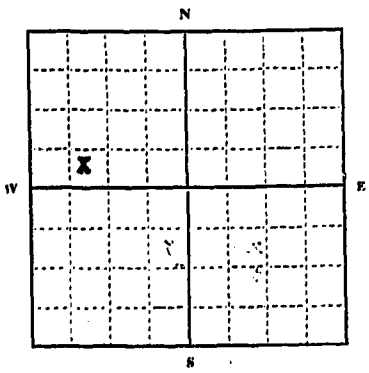
Date well started 3/4/63 Date Completed 3/6/63

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6 in	6 5/8" OD 17 # pr ft	2'	74'3"	NONE		



SW¼ NW¼ Sec. 35 T. 12N R. 20W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 33½ feet.

Shut-in Pressure for Flowing Well Non-flowing

Pumping Water Level 53 feet at 50 gal. per minute.

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

How Tested Air lift pump Length of Test 2hrs

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) A forged steel drive shoe is welded to the bottom of the casing. All water is entering well through the open bottom of the 6 inch casing. Irrigating approximately one third of an acre of lawn and garden.

Show exact depth of bottom.

Bottom of well 74 ft.

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.

20246

11 Ve 21560 1

I received and filed this instrument for record on the 11 day of Dec 196
at 2 o'clock 1 M., permanent files
of Missoula County, State of Montana
Witness my hand:
By Mata S Mata County Recorder
Fee $ 7.00 Paid Deputy

GW-4

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

35

File No.

T. 12 N R. 20 W

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964
STATE ENGINEER

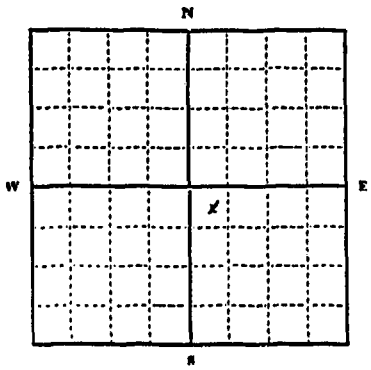
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. E. C. Mills, 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:



S.E. 1/4 NW 1/4 Sec. 35 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 on domestic and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1952 approximately 30 years

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 20 gallons per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof 1/2 acre SE 1/4 NW 1/4 Plat A

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

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

8. The depth of water table 25 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 Not known

10. The estimated amount of groundwater withdrawn each year 1,188,000 gallons

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

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

Signature of Owner E. C. Mills

Date Dec 31, 1963

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

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

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

20186

1066

215541

I received and filed this instrument for record on the 31 day of Dec. 1963 at 4:22 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. BRONER, County Recorder

By Ethel Lama Deputy

Fee $ 2.00 Paid

GW

File No.

DUPLICATE

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

T. 12N R. 20W 35

County Missoula

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)

Owner Arnold R. & Betty E. Munson Address Lolo, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 4/10/70 Date completed 4/11/70

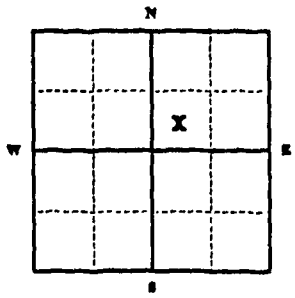
Type of well Driven (Dug, Driven, bored or drilled) Equipment used Well Driving Rig (Churn drill, rotary or other)

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8" OD x ¼"	+1	77	Torch Cut	73	75½

Water rises in the well 26 feet from surface.



Static Water Level for non-flowing well 26 feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 42 feet at 70 gal. per minute.

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

How Tested Air Lift Pump

Length of Test 3½ hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through perforations in the casing between 73 feet and 75½ feet. 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 (Continue on reverse side)

SW ¼NE Sec. 35 T 12N 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).

Top of Ground Approx. (Elev. above sea level 3187')

Formations Log:

0 - 25 Old dug well.
25 - 36 Sand & gravel.
36 - 41 Tan clay.
41 - 54 Sand and gravel mixed with tan silty clay.
54 - 66 Fine gray sand.
66 - 72 Fine gray sand and gravel.
72 - 77 Clean coarse sand and gravel. Water

Show exact depth of bottom.

Bottom of well 77'

Doc. No. 290340
Filed for record this 17 day of April A. D. 19 70, at 10:30 o'clock a M.

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 B. Adams
Driller's Signature

46376

1915

290340

I received and filed this instrument for record on the 17 day of April 19 80 at 10:30 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand

Veronica R. Crosse, County Recorder

By Marcia L. Reed, Deputy

Fee $ 3.00 Paid cash

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

GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Missoula 35

MONTANA WATER RESOURCES BOARD
RECEIVED
AUG 30 1971

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 James P. and Evelyn H. Murphy

Address 650 Artemas
Missoula, Montana

Date well started 4/12/71
completed 4/14/71

For Administrator's Use
File 306887
August 26/1971 1:22 PM
GW 1

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

Equipment used Cable tools (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☒

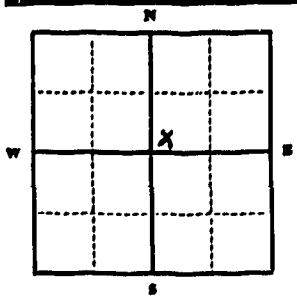
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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). Approximately 100 acres

ESTIMATED ANNUAL WITHDRAWAL 42,048,000 gallons

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'	82	N	O	N E



SW¼ NE¼ Sec. 35
T. 12N N/S R. 20W E/W

Static water level 27 ft.*
Pumping water level 57 ft.*
at 80 gallons per minute,
measured 3 hours after pumping began.
*Measured from ground level.
Well developed by Air Lift Pump
for 3 hours.
Power Diesel Pump 150 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well through open bottom of six inch casing. Wells in this area cont.

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

Driller's Signature LIBERTY DRILLING COMPANY
William B. Chime

Driller's Address 2500 Reserve Street
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 (Elev. above sea level) Approx. 3180'

From (Feet)	To (Feet)	
0	1	Topsoil
1	9	Dirty gravel and cobblestones
9	53	Fine tan sand and gravel imbedded in tan silt.
53	57	Fine tan sandy gravel
57	76	Very fine sand and gravel
76	79	Coarse gravel and fine sand
79	82	Clean coarse gravel. Water.

82 ft. Show exact depth of bottom
Water rises in well 27 feet from surface.

48964

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 40 to 50 percent of the tested capacity of the aquifer.

GW 2

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

File No.....

T 12N R 20W 35

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED DEC 9 1963 STATE ENGINEER

Top of Ground
(Elev. above sea level Approx. 3200')

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

0 - 1	Dirt	
1 - 23	Sand, gravel, cobbles and boulders	
23 - 30	Sand and gravel	
30 - 34	Sand	
34 - 41	Gravel imbedded in tan clay	
41 - 43	Brown clay	
43 - 52	Sand	
52 - 57	Sand and gravel	
57 - 59	Gravel	

Acquifer 57' to 59'. Water raised to within nine feet of surface

Owner Fred J. Nordgulen Address Box 114 Lolo, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of Appropriation of Groundwater None filed

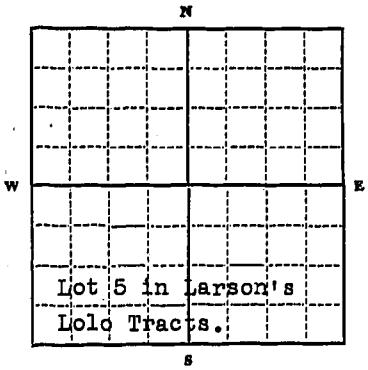
Date well started 7/5/62 Date Completed 7/7/62

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" ID 19 # pr ft	plus 1	60	none		



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

Static Water Level for non-flowing Well 9 ft feet.

Shut-in Pressure for Flowing Well Non-flowing

Pumping Water Level 27 feet at 60 gal. per minute.

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

How Tested air lift pump Length of Test 1½ 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).....

Show exact depth of bottom.

Bottom of well....59'

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.

8188

964 213876

I received and filed this instrument for record on the 6 day of Dec 1967 at 1:00 o'clock P 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 2

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

STATE WATER CONSERVATION BOARD

File No.....

JUN 23 1967

T. 12N R. 20W 35

DUPLICATE

County Missoula

Sille ..... McDermott .....
Butte ..... Mineral ..... STATE OF MONTANA
Coyle ..... Mitchell ADMINISTRATOR OF GROUNDWATER CODE
Darlinton ..... Sullivan ..... OFFICE OF STATE ENGINEER

LOG

Top of Ground

Approx.

(Elev. above sea level 3187')

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 - 3 Top soil.
3 - 12 Cobblestones in tan clay.
12 - 35 Gravel imbedded in tan clay.
35 - 53 Fine sand & gravel. Water.
53 - 58 Very fine tan sand & gravel.
58 - 64 Clean coarse sand & gravel. Water.

Owner Frances Z. & Arne L. Olson Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 6/15/67 Date completed 6/15/67

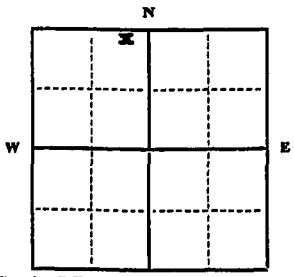
Type of well Driven (Dug, driven, bored or drilled) Equipment used Well Driving Rig (Churn drill, rotary or other)

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8" OD x ¼"	+2	64	Torch Cut	56'7"	59'7"

Water rises in the well 33'4" from surface.



Lot 13, Block 2, Hughes Addition

NE¼NE¼NW Sec. 35 T12N R. 20W

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

Static Water Level for non-flowing well 33'4" feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 42 feet at 60 gal. per minute.

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

How Tested Air Lift Pump

Length of Test Three hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through perforations in 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 rates less than 25 to (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).

Approx. ½ acre

Show exact depth of bottom.

Bottom of hole 64'

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 E. Oskrme
Driller's Signature.

42,083

1719 261737

Received and filed this instrument for record on the 20 day of June 1967 at 3:00 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Crouse, County Recorder

By M. McCarney Deputy

Fee $2.00 Paid

50 percent of the tested capacity of the aquifer.

GW 3

Approved Stock Form—State Publishing Co., Helena, Montana—42345 3

35

File No.....

T. 12 N. R. 20 W.

DUPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED
JUL 28 1969

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
~~OFFICE OF~~ STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

Developed After January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961)

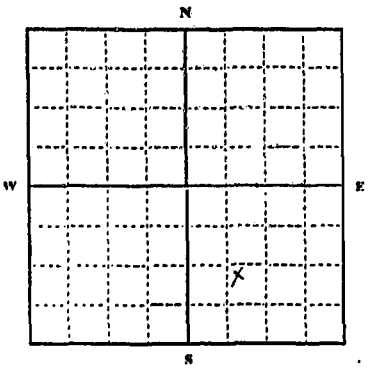
Date of Appropriation of Groundwater July 15-1969

Owner Charlie & Preston Address Lot 13 Block 3 Lolo Peak Vista N 3 Box 457 Lolo, Mont

Contractor (if any) J. E. McMillan

Address of Contractor Bitterroot Rd, Missoula, Mont

Date Started July 17-1969 Date Completed July 19-1969



SE 1/4 Sec. 35 T. 12 N R. 20 W

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

1) Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.) Sub-irrigation out of perforated concrete tube

2) Means of withdrawing water (gravity, pump, canal, etc.) Pump

3) Depth of water table 10-15 feet

4) Use of the water irrigation

5) Amount of groundwater claimed (in miner's inches, or gallons per minute) 30 gal per minute 1½ horse motor

6) If used for irrigation, give number of acres and description of land 1 acre - pasture & raw crop

7) Estimate amount of water used each year 10-15 days depending on season

Signature of Owner Charlie M. Preston
Rosalie Preston

Date July 23, 1969

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.

45485

1918 283295

I received and filed this Instrument for record on the 24 day of July 1969 at 8:30 o'clock A.M. in permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Crouse, County Recorder

By M. M. O'Connaughey, Deputy

Fee $2.00 Paid

GW 4

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

35

File No.

T. 12 N R. 20W

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

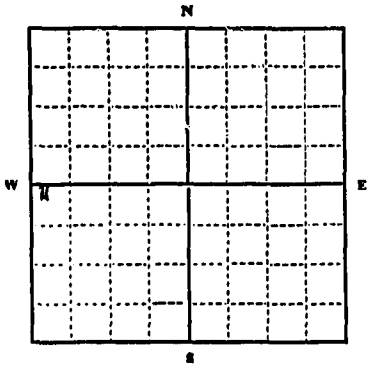
RECEIVED
JAN 3 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. ARDEN and June E. Riehe, of Box 147 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:



SW 1/4 Sec. 35 T. 12 N. 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 IRRIGATION

3. Date or approximate date of earliest beneficial use; and how continuous the use has been DATE NOT KNOWN used 6 months yearly

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof 1/2 ACRE of GARDEN LAWN TREES owners Arden L and June E Riehe

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal well located near center of described property.

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

8. The depth of water table NOT KNOWN

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 about 10 ft

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

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record warranty deed recorded June 26, 1959 Book 137 Mortgages page 188 Document No. 16245 also an agreement between Lawrence and Riehes on July 1st 1963

Signature of Owner June E. Riehe

Date Dec 31, 1963

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

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

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

20067

938 25411

I received and filed this instrument for record on the 3 day of Dec 1973 at 1:15 o'clock P M., pursuant filed of Missoula County, State of Montana

Witness my hand:

MARTIN S. BRINK, County Recorder

By [illegible] Deputy

Fee $ 2.00 Paid

GW 4

Approved Stock Form—State Publishing Co., Helena, Montana—42234 3

35

File No.....

T. 12 N. 20 W

DUPLICATE

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

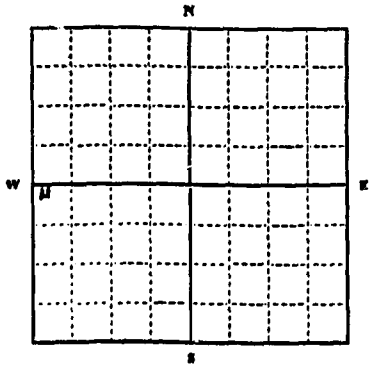
RECEIVED
JAN 2 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1 ARDEN L. & JUNE E. RIEBE, of BOX 147, 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:



SW¼ Sec. 35 T 12 N R 20 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 HOUSEHOLD AND IRRIGATION

3. Date or approximate date of earliest beneficial use; and how continuous the use has been about 1955, USED CONSTANTLY

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

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 GARDEN, LAWN, TREES. OWNER: ARDEN L. and JUNE E. RIEBE

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal BY WELL LOCATED NEAR SOUTHWEST CORNER OF PROPERTY

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater about 1955 or 1956

8. The depth of water table NOT KNOWN

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 NOT KNOWN, BUT, BELIEVED TO BE 41 FT.

10. The estimated amount of groundwater withdrawn each year 912,500 gal

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record WARRANTY DEED RECORDED JUNE 24 1959, BOOK 137 of MORTGAGES, PAGE 188 DOCUMENT NO. 162451 also agreement between Fournier & Riebe of July 19 1963

Signature of Owner June E. Riebe

Date Dec 31, 1963

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

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

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

17717

939 215412

I received and filed this instrument for record on the 31 day of Dec 1963 at 12:40 o'clock P M., permanent file of Missoula County, State of Montana

Witness my hand

MARVIN E. BRINKER, County Recorder

By ..... Deputy

Fee $ 2.00 Paid

4—Helena Independent Record

File No.....

DUPLICATE

T 12N R 20W

County Missoula

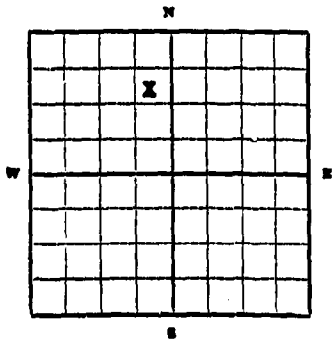
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Richard Rossignol (Name of Appropriator), of Lolo (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 35 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 Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Has been in use since the year 1900

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 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 7 acres in NE¼ of NW¼ Sec 35 T 12N R 20W

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Location as indicated 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 Well redrilled May 1959 to larger casing; completed May 13, 1959

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 10" Casing; 5 h.p. pump (electric) 100 gals per min - 62' deep

10. The estimated amount of groundwater withdrawn each year 588,000 per yr

11. The log of formations encountered in the drilling of each well if available 6' pit - 6' to 32' sandy clay and gravel - 32' to 41' sand - 41' to 46' gravel - 46' to 52' and and gravel, some clay - 52' to 62' gravel and sand, water - 62' to 64' sand. Put 3' cement plug in bottom of casing to keep out 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 static water level 29' from ground level capacity of well 100 gals per min bailed with drawdown of 2' to test for capacity.

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.

2181.

#154

197964

I received and filed this instrument for record on the 1 day of Oct 19 72 at 11:20 o'clock A M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder

By Maxine A. Scott Deputy

Fee $ 2.00 Paid

4—Helena Independent Record

File No.....

DUPLICATE

T 12N R 20W

County Missoula

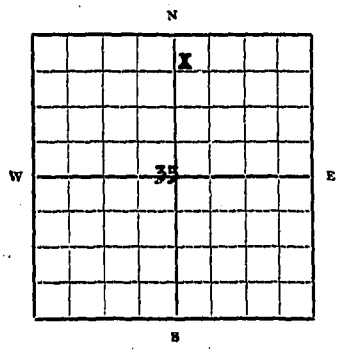
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
SEP 4 1962
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

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:



.....¼..... Sec 35 ..... 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 stockwater and shop facilities

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Well drilled October 1946 in Used since October 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 Richard Rossignol, owner

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal NW¼ of NE¼ Sec 35 6" Casing - 1/2 h.p. pump, 56' deep

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started October 1946, finished October 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 6" Casing, 1/2 h.p. pump - 56' deep

10. The estimated amount of groundwater withdrawn each year 30,000 gals

11. The log of formations encountered in the drilling of each well if available information not available - driller deceased

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.

2178

#151

197961

I received and filed this instrument for record on the 1 day of Oct 19 62 at 11:45 o'clock A M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder
By Dorothy Head Deputy
Fee $ 7.00 Paid

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

35

File No. .....

T. 12 N. R. 20 W

DUPLICATE

County Missoula

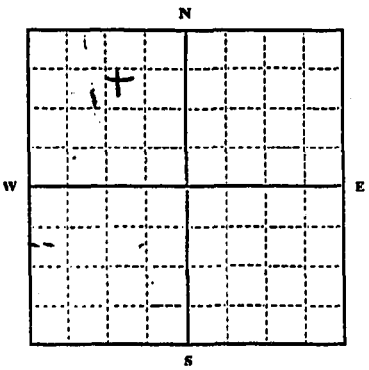
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

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



N ½ Sec. 35 T 12 R 20 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 Home Water

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 inches per minute

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

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

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

8. The depth of water table 30'

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 Deep well 35 ft 3 inch pipe Deep.

10. The estimated amount of groundwater withdrawn each year Unknown

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

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

Signature of Owner John Ray

Date Dec 31, 1963

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

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

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

20107

986 25460

I received and filed this instrument for record this 7 day of Oct 1967 at 2:40 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand

MARTIN S. BENNETT, County Recorder

By Marie P. Belen Deputy

Fee $ ..... Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Missoula 35

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 Ken Schmautz

Address Lot #2 Blk. 3
Lolo Real Vista #8

Date well started 11-1-72

completed 11-1-72

For Administrator's Use	
File	2415; 327664
	Feb 5, 1973
GW 1	1:00 p.m.

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

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

Water Use: Domestic ☑ Municipal ☐ Stock ☐ Irrigation ☐

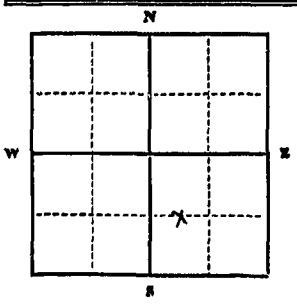
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☑

*Describe —

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8"	~~0~~ +1	50	none	—	—



Static water level 10 ft.*
Pumping water level 30 ft.*
at 60 gallons per minute,
measured — minutes after pumping began.
*Measured from ground level.
Well developed by air compressor
for 1 hours.
Power — Pump — HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) water entering well in gravel below 50 ft.

¼ SE ¼ Sec. 35
T. 12N N/S R. 20W E/W

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

Driller's Signature Robert Jerome

Driller's Address 3726 Mount Ave.
Missoula, Mont. LICENSE NO. 8

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	50	Sand, gravel, water

50' Show exact depth of bottom

52,367

2415 327664

I received and filed this Instrument for record on the 5th day of July 1973 at 1:00 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By M. McConaughey Deputy

Fee $2.00 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—43642

MONTANA WATER RESOURCES BOARD
RECEIVED
OCT 10 1967

File No.....

T. 12N R. 20W

35

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 Approx. 3180')

Formations Log:

0 - 4 Gravel & fill
4 - 8 Sandy soil.
8 - 32 Silty sand & gravel. Some clay mixed in.
32 - 66 Fine silty sand & gravel.
66 - 78 Fine sand & gravel.
78 - 82 Coarse sand & fine gravel.
82 - 95 Coarse sand & gravel. Water.

Water rises in the well 14'6" from surface.

Show exact depth of bottom.
Bottom of hole 95'

Owner Vienna Tripp & Don Tripp Address Lolo, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

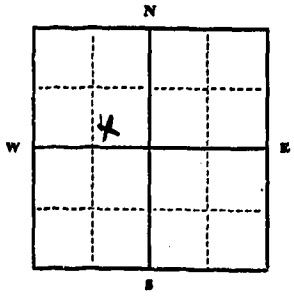
Date well started 3/29/67 Date completed 4/3/67

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 ☒

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"	+18	83'	A 100/1000 slot size Wire Wound Six Inch Johnson Water Well Screen	82	92
		A tail pipe bottom extends from		with solid closed	92	95



SE¼, NW¼
SE ¼ NW ¼ Sec. 35 T. 12 R. 20
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 14'6" feet.

Shut-in Pressure for Flowing Well None

Pumping Water Level 63 feet at 300 gal. per minute.

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

How Tested Air Lift Pump

Length of Test 6½ hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through the slots openings in the Johnson Water Well Screen

(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).

Approx. 3.8 acres

52
Driller's License Number

William E. 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, tissue copy to be retained by driller.

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

43,381

1742 264673

Received and filed this Instrument for record on the 6 day of Oct. 1967 at 1:32 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Crouse, County Recorder

By M. M. McConaughey, Deputy

Fee $2.00 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4564

MONTANA WATER RESOURCES BOARD
RECEIVED
OCT 10 1967

File No.

DUPLICATE

T 12N R 20W 35

County Missoula

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)

LOG

Top of Ground (Elev. above sea level Approx. 3182')

Formations Log:

0 - 2 Top soil.
2 - 16 Sand, gravel & boulders.
16 - 32 Silty sand & gravel.
32 - 39 Tan clay with few scattered gravels imbedded.
39 - 54 Tan silty sand.
54 - 76 Coarse brown sand.
76 - 78 Fine sand & gravel.
78 - 91 Coarse sand & fine gravel. water.
91 - 93 Fine sand.

Water rises in the well 31 feet from surface.

Show exact depth of bottom.

Bottom of hole 93'

Owner Don Tripp Trucking A Montana Corporation Address Lolo, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

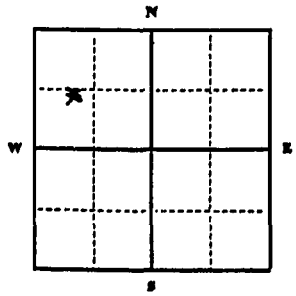
Date well started 8/26/64 Date completed 8/28/64

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 ☐

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"	+18	80	A 125/1000 slot size Wire Wound Six Inch Johnson Water Well Screen	79	90
		A tail pipe with solid closed bottom extends from			90	93



SW ¼ NW Sec. 35 T 12 R 20

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

Static Water Level for non-flowing well 31 feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 50 feet at 100 gal. per minute.

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

How Tested Air Lift Pump

Length of Test 6½ hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well through slot openings in the Johnson Well Screen.

(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).

Approx. 5 acres, Lot 8, Delaneys Sub-Division

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. Dahmer
Driller's Signature.

42,380

1743 264674

Received and filed this Instrument for record on the 6 day of Oct 1947 at 1:34 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand

Veramae R. Cruse, County Recorder

By M. McCormick Deputy

Fee $2.00 Paid

GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Missoula 33

RECEIVED
OCT 14 1970

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 Don & Vienna Tripp

Address Lolo, Montana

For Administrator's Use
File 295720
October 9, 1970
1:10 P.M.
GW 1

Date well started July 7, 1970

completed July 8, 1970

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

Equipment used Cable Tools
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☒

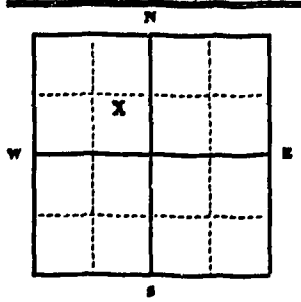
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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). Approximately ten acres.

ESTIMATED ANNUAL WITHDRAWAL Unknown

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	66	Johnson Wire Wound Water Well Screen	66	71
	5 9/16" blank tail pipe				71	74



SE ¼ NW ¼ Sec. 35
T. 12 N/S R. 20 E/W

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

Static water level 25'6" ft.*
Pumping water level 30 ft.*
at +100 gallons per minute,
measured 4 hours minutes after pumping began.
*Measured from ground level.
Well developed by Air Lift Pump
for 2 hours.
Power 230V Pump 3 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well through slot openings in screen. 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 60 to 70 percent of the tested capacity of the aquifer.

Driller's Signature LIBERTY DRILLING COMPANY
William F. Palmer

Driller's Address 2500 Reserve Street
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) 3180±

From (Feet)	To (Feet)	
0	64	Old drilled well
64	74	Clean sand and gravel. Water.

74 ft. Show exact depth of bottom

Water rises in the well to 25'6" from surface.

47626

2051 295720

I received and filed this Instrument for record on the 9th day of Oct. 1970 at 1:10 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:

Veranne R. Crouse, County Recorder

By [illegible] Deputy

Fee $2.00 Paid

G —Helena Independent Record

File No.....

DUPLICATE

T. 12 N R. 20 W

County. Missoula

35

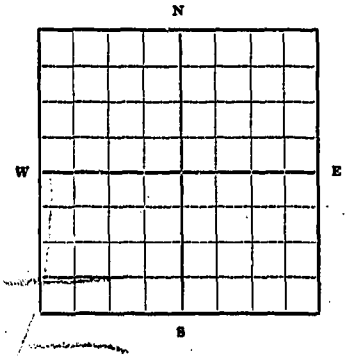
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 2 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. CHARLES TROLLOPE 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:



½ SW ¼ Sec. 35 T 12 N R. 20 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 Home and Trailer Park

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1000 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 garden and lawn Charles Trollope

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 1952

8. The depth of water table 28 feet in wintertime

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 4" (inch) casing 40 feet deep

10. The estimated amount of groundwater withdrawn each year 500,000 gal

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 none

Signature of Owner Charles Trollope

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.

17690

904

215377

Copy

I received and filed this instrument for record on the 31 day of Dec 1963 at 11:00 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. SELVER, County Recorder

By Martin S. Selver Deputy

Fee $ 2.00 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—40472

File No.....

DUPLICATE

I T. 12 N. R. 20 W.

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 3 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level 3,223)

0 - 3 top soil & gravel
3 - 23 gravel & cobble stone
23 - 30 sand &water
30 - 47 sand & small gravel
47 - 54 gravel & clay & sand
54 - 60 clay
60 - 64 sand & water
64 - 72 gravel & water

Owner Louise G. Wilfong Address Lolo Montana

Driller Harold K. Pickens Address Rte # 1 Missoula

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

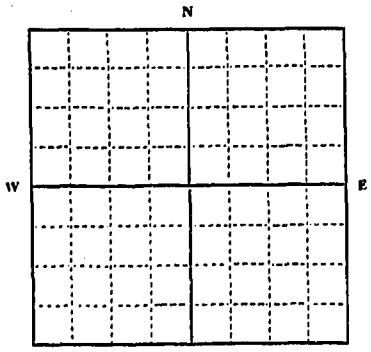
Date well started Aug. 15 Date Completed Aug. 17 1963

Type of well driven (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)
4"	4" 10.78	0	728	1¼ x ¼ slot	72	67



¼ Sec. 35 T. 12N R. 20 W

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

Lot 5, Hughes Addition - Lolo, Montana

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

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

Pumping Water Level 60 feet at 20 gal. per minute.

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

How Tested compressor Length of Test 4 hrs

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) 1/3

Show exact depth of bottom.

72 ft

71
Driller's License Number

Harold K. Pickens
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.

34789

216924

Copy

I received and filed this instrument for record on the 29 day of January 1961 at 9:08 o'clock A.M., permanently filed of Missoula County, State of Montana

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

GW 2

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

File No.....

MONTANA WATER RESOURCES BOARD
RECEIVED
JUL 31 1980

T. 12N R. 20W 35

County Missoula

DUPLICATE

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)

LOG

Top of Ground Approx.
(Elev. above sea level 3180')

Formations Log:

0 - 5 Black dirt.
5 - 19 Brown sand & gravel.
19 - 34 Tan clay with sand and gravel mixed in.
34 - 47 Fine sand & gravel.
47 - 51 Coarse sand.
51 - 56½ Clean coarse sand and gravel.

Owner Gordon C. & Margaret Twirtz Address Lolo, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 5/31/68 Date completed 6/7/68

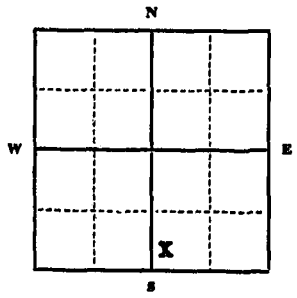
Type of well Driven (Dug, driven, bored or drilled) Equipment used Well Driving Rig (Churn drill, rotary or other)

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8" OD by ¼"	+10"	56'6"	Torch Cut ¼" by 3" slots	51'6"	56'6"

Water rises in the well 4'3" from surface.



Static Water Level for non-flowing well 4'3" feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 29 feet at 80 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 perforations in 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 rates not in excess of 30 to 40 percent of the tested capacity of the aquifer.

(Continue on reverse side)

SW ¼ SE Sec. 35 T. 12N 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).

Lots 5 & 6, Lolo Peak Vista Addition

Show exact depth of bottom.
Bottom of hole 56'6"

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 C. Osborne
Driller's Signature.

44,461

181°

273333

I received and filed this instrument for record on the 26 day of July 1968 at 12:12 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

NO SECTION

GW.

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

File No.....

T. 12N R. 20W

DUPLICATE

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

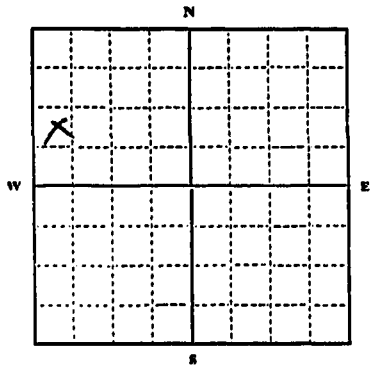
RECEIVED JAN 3 1964 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. FRANCIS W E SMITH, of MILLER CR RT 3 MISSOULA
(Name of Appropriator) (Address) (Town)

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



.....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 HOUSEHOLD AND YARD & GARDEN IRRIGATION

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1953- DAILY

4. The amount of groundwater claimed (in miner's inches or gallons per minute) FIFTEEN GAL/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 ONE + ONE-HALF ACRES - LAWN GARDEN AND TREES - SAME AS ABOVE

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal ELECTRICALLY OPERATED TRIPLE STAGE JET NEAR HOUSE IN CENTER OF SITE

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater ON OR ABOUT AUG - 1, 1953

8. The depth of water table 102 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 SIX INCH CASING 102 FEET DEEP ONE HORSE MOTOR TRIPLE STAGE JET PUMP

10. The estimated amount of groundwater withdrawn each year 1 MILLION

11. The log of formations encountered in the drilling of each well if available SAND GRAVEL CLAY INTERMIXED

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 known

Signature of Owner Francis W E Smith

Date 12-30-63

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.

20372

125m

Copy

I received ... instrument for record ... Dec. 19 ... at ... 8:12 ... 3 ... of ... instrument files ... Montana

Witness my hand ...

County Recorder

By Martin ... Deputy

Fee $ 2 ... Paid

GROUNDWATER INDEX

County MISSOULA Twp. 12 NORTH Rge. 19 WEST

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
2	Lee, Jim	GW 2	266650	
3	Grout, Louise, et al	GW 4	212112	
2	Curry, Robert B.	GW4	194252	
2	Estes. O.K.	GW4	252491	
2	Hoven, Thora	GW4	1255	
2	Hoven, Thora	GW3	1299	
2	Hoven, Vernon	GW3	215367	
2	Jakobson, Mark J.	GW4	270266	
2	Koppen, Donald	GW2	320047	
2	Lucas, Robert	GW2	317601	
2	Miller. Donald	GW2	274730	
2	Sperry, John	GW2	316943	
2	Tawney, David (Oe)	GW2	277563	
2	Tawney, David (Wt)	GW2	285900	
2	Tawney, D.B (Oe)	GW3	1314	
2	Wohlschlager, Roy	GW4	1200	
2	Wohlschlager, Frank	GW3	1213	
3	Burmeyer, George	GW2	266846	
3	Burmeyer, George	GW4	214869	
3	Burmeyer, George	GW4	215434	
3	~~Ciminor, Wm L.~~	~~GW1~~	~~111~~	Filed GW-15 No GW2
3	Ciminvo, Wm L.	GW3	1112	
3	Cox, Walter	GW4	208806	
3	Crisman, Homer R.	GW3	1209	
3	Fritts, John. (Car)	GW2	262559	
3	McDaniels, Jesse E.	GW2	330685	
3	Parmelee, Fred T	GW3	215550	
4	Farviews Devel. Co	GW3	214512	
4	Mosby's Resource Highland Inc.	GW4	214513	
4	Weisel, George F.	GW4	211003	
4	Weisel, George F.	GW4	211004	
5	Hefte, A. H.	1957 Log	150209	
5	Hoven, Vernon	GW2	215364	
5	O'Connor, Dan	GW4	1267	
5	O'Connor. Dan	GW3	263776	
6	Brown, W. D	GW2	273206	
6	Campbell, John T.	GW4	1319	
6	Hardy. Harold	GW2	322677	
6	Hayes. Walter W	GW4	1153	
6	Henry, Marshall	1957 Log	146599	
6	Henry, Marshall	GW4	215916	
6	Hurtz, John P.	GW4	1130	
6	Lilleville Manor	GW4	192139	
6	Montana Power Co	GW2	274163	
6	Montana Power Co	GW1	274162	
6	Peery Walter	GW4	217454	
6	Purdy, Wilbur	GW4	1306	
6	Reader, Bertha	1957 Log	158096	

GROUNDWATER INDEX

County MISSOULA Twp. 12 North Rge. 19 West

9 Grout, Louise, et al GW 4 212113

Sec.	Name of Appropriator	Type of Form	File No.	Remarks
9	Grout, Louise, et al	GW 2	212114	
9	Grout, Louise	GW 4	214913	
6	Senechal, Leonard	1957 Log	185789	
6	Tripps, Dan	1957 Log	146598	
7	McCullough, R.D.	GW 3	1221	
7	Tietz, Otto	GW 3	22511	
8	Hayden, Richard	GW 2	1150	
8	Hayden, Richard	GW 3	1149	
8	Lake, Harold, McGee, Jay	GW 3	214894	—
9	O'Connor, Dan	GW 3	1269	
11	Means, John R. Watkins John	GW 2	1929	
11	Nakamura, Mitsuru	GW 3	213563	
11	McCullough, R.D.	GW 3	1182	
12	Bessen, Ruth Bulen	GW 3	214457	
12	Davis, Daniel	GW 2	214148	
12	Marsh, Harold	GW 2	334248	
12	Morgan, Robert	GW 2	237257	
18	Brackebush, Arthur	GW 2	249120	
18	Lundberg, Werner C	GW 2	301229	
18	Magee, Jay W. Lake Harold	GW 2	214894	see above sec. 8
18	Pollette, Eugene	GW 4	210224	
19	Hoffman, Dean C	GW 2	293467	
19	McCullough, Ross	GW 4	1216	
20	Baker, Eldon E	GW 2	293685	
20	Blabberich, Matt	GW 2	286000	
20	Daley, Howard W.	GW 2	994066	
20	Ellis, Donald J.	GW 2	293570	
20	Graham, Charles	GW 2	286696	
20	Graham, Charles	GW 2	275063	
20	Grote, Carl	GW 2	290263	
20	Hall, Lionel D.	GW 2	316244	
20	Jones, Robert W.	GW 2	326610	
20	McCullough, R.D.	GW 3	1218	
20	Warthen, Robert L	GW 2	295118	
20	Warthen, Robert L.	GW 2	310032	
20	Warthen, Robert L.	GW 2	310033	
20	Werner, Roger C.	GW 2	327008	
21	Barnaugh, Robert P.	GW 2	281483	
21	Carlson, Clinton E	GW 2	324144	Missing
21	Barnaugh, Robert P	GW 2	281483	see above sec 21
21	Deremer, Floyd E.	GW 2	235659	
21	Foreman, Robert	GW 2	325085	
21	Fox, James E.	GW 2	240993	
21	Grabnitz, Elton L.	GW 2	249808	
21	Maclay, Glenn W.	GW 2	251103	
21	Mallery, Jimmie	GW 2	236680	
21	Sorenson, Bob	GW 2	308660	
21	Torgerson, Dale	GW 2	27461	

E F G H

GROUNDWATER INDEX

County Missoula Twp. 12 North Rge. 19 West

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
22	Beaudry, A.J.	GW3	281365	
22	Beaudry, A.J.	GW2	238532	
22	Beaudry, A.J.	GW2	242688	
22	Knapp, Harold J.	GW3	281188	
22	Knapp, Harold J.	GW2	235270	
22	McCullough, R.D.	GW3	.1185	
22	Sandergor, Wilfred	GW2	340433	
22	Sandergor, Wilfred	GW2	262315	
22	Harp, Betty	GW2	254145	
22	Sylvester, James	GW2	235868	
22	Sylvester, James	GW2	267791	
22	Wages, Paul W.	GW3	228428	
23	Hollaway, Elaie	GW4	264421	
24	Hinkle, George R.	GW3	251440	
24	Hinkle, George R.	GW3	251441	
24	Hinkle, George R	GW3	1619	
24	Hinkle, George R.	GW3	251443	
24	Hinkle, George R.	GW3	251445	
24	Hinkle, George R.	GW3	1618	
27	Hirning, John J	GW2	226509	
27	Smith, Ralph	GW4	215525	
28	Cooney, Hal	GW3	235287	
32	Fite, Fred	GW2	215349	
35	Leavitt, H. L.	GW2	237845	
?	Hoefater, Harold	GW4	215345	
?	Zodtnick, John	GW4	215310	see 12N 20W
19	Paddock, Rex	GW2	320693	
20	Lawrence, Bill	2	2038	