2585

334382

I received and filed this Instrument for record on the 29 day of June 1973 at 4:34 o'clock P M., permanent files of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By Linda M Sloan, Deputy
Fee $ 2.00 Paid ca.

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

File No.....

T. 13 N R 20 W

DUPLICATE

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

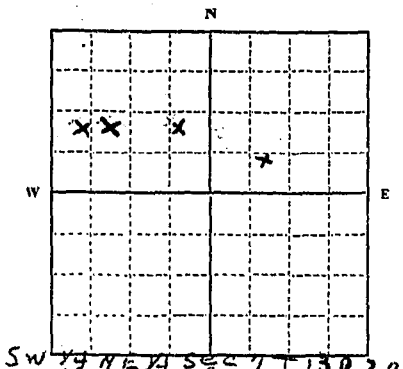
RECEIVED JAN 3 1964 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. John H. Doherty Mary Jane Doherty, of Box 43 (Address) Winnett (Town)
(Name of Appropriator)

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



SW 1/4 NE 1/4 Sec 7 T 13 R 20
SE 1/4 NW Sec 7 T 13 R 20
SW 1/4 NW Sec. 7 T. 13 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 Household stock water — Irrigation

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 dug wells (10 miners inches) drill well - 8" casing 1800 gal per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Owner as signed - used only on lands by same holder on fly receipt

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 1 hand 2-15 horse electrified - 1-50 horse electric

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

8. The depth of water table 3 open wells 30 feet from surface - drilled - 40 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 3 open dug - rocked 60 feet wells 1 drilled - 118 feet - 8 inch casing

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 The estimated amount of groundwater withdrawn each year 500,000 inches

11. The log of formations encountered in the drilling of each well if available none on open wells log on drilled - first water at 32 feet - 2nd water at 46 32 water at 58 feet - quit at 118 feet.

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 filed & recorded when drilled by E. C. Hoffman Co.

Signature of Owner John H. Doherty Mary Jane Doherty

Date.....

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

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

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

20147

1027

215501

I received and filed this instrument for record on the 31 day of Dec 1963 at 3:36 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

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—41933 3

STATE WATER CONSERVATION BOARD

File No. _____

AUG 12 1966

T. 13N R. 20W

County Missoula

DUPLICATE

Bills _____ McDermott _____
Sutherlin _____ McNally _____
Coyle _____ Norton _____
Darlington _____ Sullivan _____
Dickert _____

Top of Ground
(Elev. above sea level _____)

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)

Well drilled on Big Flats

Owner LaVell Hunter Address 1918 Wyoming

Driller Glenn Camp 705 Alder Address Missoula, Mont

Date of Notice of Appropriation of Groundwater _____

Date well started 8/19/65 Date Completed 8/21/65

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

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

0 to 6' Sandy soil
6' to 15' Sand & gravel
15' to 45' Heaving sand & water
45' to 48' Sand, gravel & water
48' to 65' Heaving sand & water
65' to 67' Sand, gravel & water

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" I.D. 17# to ft	3' below G.L.	to 67'3"	None		

Static Water Level for non-flowing Well 9' from G.L. feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 10 feet at 18 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Compressor Length of Test 1 hour

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

N
W E
S

_____ ¼ Sec. 7 T. 13N R. 20W

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

Lot 13 Block 2 Sol Acres Subdivision 2nd Filing

Show exact depth of bottom.

Licence # 7
Driller's License Number

Glenn Camp
Driller's Signature

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

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

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

41305

1137 252856

I received and filed this Instrument for record on the 9 day of Aug 19 66 at 1:00 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Crouse, County Recorder

By M. M. McLaughlin Deputy

Fee $2.00 Paid Cash

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
JUL 6 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Missoula 07

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 R Johnson

Address RT #1 Big Flat
Missoula Montana

Date well started August 1/72
completed August 1/72

For Administrator's Use
File 334448, 2591
6-7-73
GW 1 4:14 p.m.

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

Equipment used driver on old Truck (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

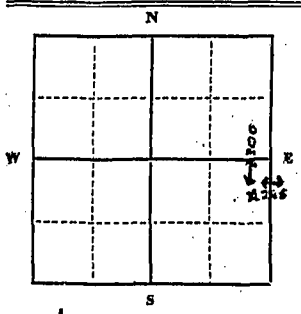
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe Well used to supply water to house

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). NA

ESTIMATED ANNUAL WITHDRAWAL 80,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
4"	4" min	3080	3042	10 ft. of 1" 12"	3020	3040



NW ¼ of SW ¼ Sec. 7
T. 13N N/S R. 20W E/W

Static water level 14 ft.*
Pumping water level 32 ft.*
at 30 gallons per minute,
measured 30 minutes after pumping began.
*Measured from ground level.
Well developed by Pumping
for 8 hours.
Power Elect. Pump ½ HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) Gravel 2 valves

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

Driller's Signature James R Johnson

Driller's Address RT #1 Big Flat Missoula Montana LICENSE NO.

DRILLER'S LOG

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

Top of Ground (Elev. above sea level) 3080

From (Feet)	To (Feet)	
3080	3077	Sand & clay for 3 ft
3077	3042	First water 14 ft.
		Sand & gravel to 35 ft.
		Water rises 21 ft.

38 feet Show exact depth of bottom

Anna Montalbo
NOTARY PUBLIC for the State of Montana
Residing at Missoula, Montana
My Commission Expires April 13, 1974

55816

2591 334448

I received and filed this Instrument for record on the 2nd day of July 19 73 at 4:14 o'clock P M. permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By M. M. Pomeroy Deputy

Fee $2.00 Paid

GW-2 Revised, 1969
STATE PUBLISHING COMPANY

County.....

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 Edward A. Knudson

Address Rt #1 Big Flat
Missoula Montana

Date well started June 7 72

completed June 8, 72

For Administrator's Use
File 2555, 54885
June 29 1973
GW 1 10:32 a.m.

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

Equipment used Driver
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

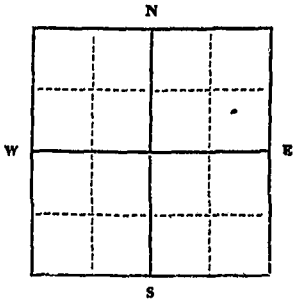
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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 100,000 Gallon

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
N/A	4 inch 10 pounds per foot	N/A	N/A	slots 3/4" X 8"	42"	34"



N.E. 1/4 S.E. 1/4 Sec. 7
T. 13 (N) R. 20 E (W)
S

Static water level 6 ft.*
Pumping water level 6 ft.*
at 20 gallons per minute,
measured 5 minutes after pumping began.
*Measured from ground level.
Well developed by Air Compressor
for 8 hours.
Power 220 Elect Pump 3/4 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) N/A

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

Driller's Signature .....

Driller's Address .....

..... LICENSE NO.....

DRILLER'S LOG

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

Top of Ground (Elev. above sea level) _____

From (Feet)	To (Feet)		
			Perforations
			42 ft

42 feet Show exact depth of bottom

54885

ESS 334244

I received and filed this instrument for record on the 2nd day of June 1993 at 10:32 o'clock A M., permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By Corinne Wharp Deputy

Fee $2.00 ck. Paid

4—Helena Independent Record

File No.....

TRIPLICATE

T.13N R.20W

County Missoula

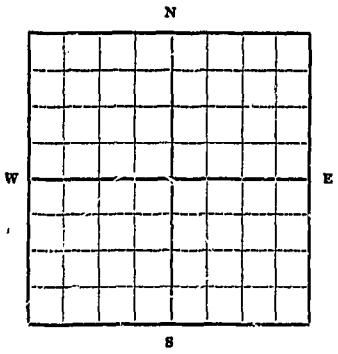
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 13 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. ROBERT N. MAST (Name of Appropriator), of Route #1, Big Flat, Missoula (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE ¼NW¼ Sec. 7 T13N 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 usual household purposes and irrigation purposes

3. Date or approximate date of earliest beneficial use; and how continuous the use has been August 1958; constant use since that time.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 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 irrigation consists of yard and garden irrigation about immediate house.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal water withdrawn by pump located in home

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater well commenced and completed August, 1958

8. The depth of water table thirteen 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 depth 47 feet; 4" casing; driven well.

10. The estimated amount of groundwater withdrawn each year 375,000 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

Signature of Owner.....

Date December 5, 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.

8990

400 214209

I received and filed this instrument for record on the 12 day of Dec 1963 at 1:00 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. BURNER, County Recorder

By [signature] Deputy

Fee $ 2.00 Paid

4—Helena Independent Record

7

File No.....

T. 13N R. 20W

DUPLICATE

County Missoula

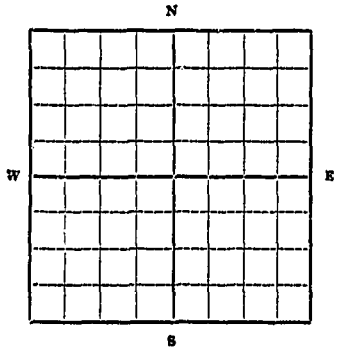
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED JAN 3 1964 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. ROBERT N. MAST, of Route #1, Big Flat, Missoula,
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE¼ NW¼ Sec. 7 T. 13N 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 irrigation purposes

3. Date or approximate date of earliest beneficial use; and how continuous the use has been May 2, 1962; use has been constant since that time.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 180 gallons a minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof sprinkler irrigation for 10 acres; Robert N. and Mary Lou Mast owners.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric 5 h.p pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commencement May 2, 1962; completion May 10, 1962.

8. The depth of water table three 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 sump hole 10 feet deep.

10. The estimated amount of groundwater withdrawn each year 8,640,000 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. See Notice of Appropriation filed with Missoula County Clerk and Recorder.

Signature of Owner Robert N. Mast

Date December 26, 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.

19938

123

215132

Copy

I received and filed this instrument for record on the 30 day of Jan 1963 at 11:20 o'clock A 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

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Missoula 7

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 Daniel J. Morris

Address Rt. 1 Big Flat
Missoula, Mont

Date well started 6/23/72
completed 6/26/72

For Administrator's Use
File 2539, 334084
June 28, 1973
GW 1 8:12 A.M.

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

Equipment used Single drum jammer & hammer (Churn drill, rotary or other)

Water Use: Domestic ☑ Municipal ☐ Stock ☑ Irrigation ☑

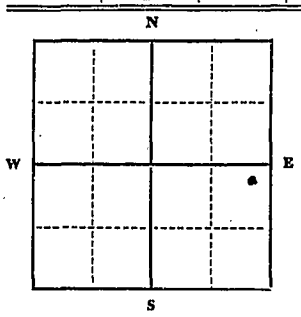
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☑

*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). 2 acres lot 1 block 3 Sol Acreages 2nd Filing

ESTIMATED ANNUAL WITHDRAWAL 150,000 gal.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
4 3/4"	4" I.D. 3/8" wall	Ground level	42 Ft	1/8 x 4" (measured from bottom of the well)	1'	8'



NE ¼ SE ¼ Sec. 7
T. 13 N (S) R. 20 E (W)

Static water level 12 ft.*
Pumping water level 12 ft.*
at app. 75 gallons per minute,
measured 2 minutes after pumping began.
*Measured from ground level.
Well developed by 125 GPM compressor
for 4 hours.
Power Elec. Pump 3/4 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) .....

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

Driller's Signature David J. Morris

Driller's Address Rt. 1 Big Flat
Missoula, Mont. LICENSE NO. .....

DRILLER'S LOG

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

Top of Ground (Elev. above sea level) 3200

From (Feet)	To (Feet)	
0	6½	Top Soil
½	12	Gravel
12	42	Gravel & water

42 Ft Show exact depth of bottom from ground level

54480

2539 334084

I received and filed this instrument for record on the 28th day of June 1973 at 8:12 o'clock A.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—45642 3

File No. MONTANA WATER RESOURCES BOARD #3

RECEIVED

DUPLICATE

LOG NOV 9 1967

T. 13 R. 20 7

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

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

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Well # 3

0-4	Top Soil
4-30	Sand and Gravel
30-33	Sand
33-35	Sand and Gravel
35-41'5"	Sand, Gravel & Water

Owner J. H. PROBST Address Big Flats Missoula, Montana

Driller Glenn Camp Address 1522 S. 14th Missoula, Montana

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

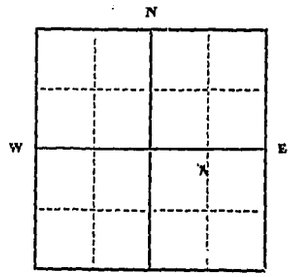
Date well started May 16, 1967 Date completed May 19, 1967

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6" I.D.	5" I.D. 17 lb per ft.	2' above G.L.	43'5"		NONE	



Probst Addn.

NE¼NW¼SE¼ Sec. 7 T. 13 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 12 feet.

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

Pumping Water Level 20 feet with 8' Drawdown at 70 gal. per minute.

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

How Tested compressor

Length of Test Approx 2 hours

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

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

License # 7
Driller's License Number

Glenn Camp
Driller's Signature. Glenn Camp

42,512

1755

265518

I received and filed this Instrument for record on the 7 day of Nov 1967 at 9:13 a o'clock AM., permanent files of Missoula County, State of Montana

Witness my hand

Veramae H. Crouse, County Recorder

By S. Billings, Deputy

Fee $ 2.00 Paid

GW 2

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

File No. ..... MONTANA WATER RESOURCES BOARD

RECEIVED

LOG NOV 9 1967

DUPLICATE

T. 13 R. 20 7

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 _____

(Elev. above sea level _____)

Well #2

0-3	Top Soil
3-39'6"	Sand and gravel
39'6"-44	Sand & Gravel & water
44-46	Sand and water
46-64	Sand, Gravel, water
64-75	Sand, Gravel, Clay
75-93	Sand, Clay, Gravel
93-96	Sand and gravel

2 Ft. Gravel pack in

Owner J. H. Probst Address Big Flats Missoula, Montana 1522 S. 14th

Driller Glenn Camp Address Missoula, Montana

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

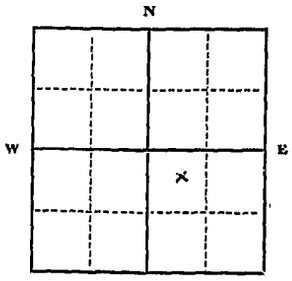
Date well started May 12, 1967 Date completed May 17, 1967

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6" I.D.	6" I.D. 17 lb per ft.	1'4" above G. L.	97'4"	none		



Probst Addn.

NE¼ NW¼ SE¼ Sec. 7 T. 13 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 101'6" feet.

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

Pumping Water Level 20 feet with 3' draw down

at 50 gal. per minute.

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

How Tested compressor

Length of Test 3 hours

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

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

License # 7
Driller's License Number

Glenn Camp
Driller's Signature. Glenn Camp

42,511

265517

I received and filed this Instrument for record on the 7 day of Nov 19 67 at 9:25 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

Veramae E. Crouse, County Recorder

By H. Billings, Deputy

Fee $ 2.00 Paid cash

GW 2

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

File No. MONTANA WATER RESOURCES BOARD RECEIVED NOV 9 1967 Well #1

T. 13 R. 20 7

DUPLICATE

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.....)

0 to 4' Top soil

4' to 40' Gravel & sand

40' to 42' Sand

42' to 45'-6" Gravel, sand & water

Show exact depth of bottom.

Owner J.H.Probst Address Rt 1, Missoula

Driller Glenn Camp 705 Alder Address Missoula, Mont

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

Date well started 5/11/67 Date completed 5/13/67

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" I.D. 17# to ft	1' above G.L. to 44'-6"		None		

N
W E
S

Probst Addn.

NE¼ NW¼ SE¼ Sec. 7 T. 13 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 12 feet.

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

Pumping Water Level 17 feet at 30 gal. per minute.

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

How Tested Compressor

Length of Test 4 hours

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

.....(Continue on reverse side)

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

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

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

License # 7
Driller's License Number

Glenn Camp
Driller's Signature.

42,510

53

265516

I received and filed this Instrument for record on the 7 day of Nov 1967 at 9:20 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Crouse, County Recorder

By L. Billings, Deputy

Fee $ 2.00 Paid

T. 13N R. 20W 687

County Missoula

RECEIVED
AUG 28 1959
STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Harry Ramer Address 1175 Howell Missoula Mont

Driller John Stormile Address

Date Started June 3 1959 Date Completed June 7 1959

Location: Sec. 17 T. 13N R. 20W ¼ sec. SW SW ¼ NW ¼

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

Water use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]

Industrial [ ] Drainage [ ] Other:

Casing: 4 ft. to 77 ft. Type Steel Size 5 11

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. to ft. Ft. to ft.

Type of screen or perforations

Static Water level, for non-flowing well: 13 feet.

Shut-in pressure, for flowing well: lb./sq. in. on: June 27 1959 (date)

Pumping water level 50 feet at 10 gal. per min.

How tested: bailer

Length of test

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

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	6	Rock
6	18	Sand Gravel
18	94	Sand Water
94	97	gravel Water

I received and filed this instrument for record on the 26 day of Aug 1959 at 1:20 o'clock P.M. permanent file of Missoula County, State of Montana

Witness my hand

MARTIN S. BEHLER, County Recorder

By [signature] Deputy

Fee $1.00 Paid

#474

164139

JW 3

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

File No.....

T. 13N R 20W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
AUG 4 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Surface water

Date of Appropriation of Groundwater June 15, 1963

Owner R.W. Steele Address Route #1 Missoula, Mont.

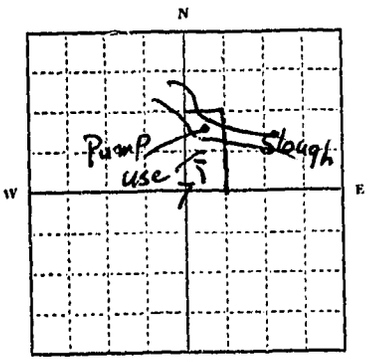
Contractor (if any) —

Address of Contractor —

Date Started 6/15/63 Date Completed 6/20/63

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

Use of Slough for irrigation Purposes on land recently acquired. Depth of slough at origin - 2 feet



W½ SW¼ NE¼ Sec. 7 T 13N R 20W

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

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

for sprinkler system 3" pipe during summer months approximately twice a week during summer

Signature of Owner Robert W. Steele

Date July 1, 1964

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

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

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

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

38354

6420

223425

I received and filed this Instrument for record on the 2 day of July 1964 at 8:16 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

Veronice D. Cause, County Recorder

By D. Billings, Deputy

Fee $2.00 Paid

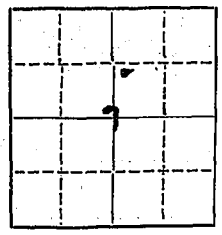
T. 13N R. 20W 7

County Missoula

RECEIVED
OCT 19 1959
STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG



Owner Robert W. Steele Address Target Range Rt #1

Driller John Farrell Address Arlee

Date Started July 15 - 1959 Date Completed July 20 - 1959

Location: Sec. 7 T. 13N R. 20W ¼ sec. W½ W½ SW¼ NE¼

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

Water use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 6' pit ft. Type Steel Size 5"

Casing: 6 ft. to 8.5' ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. to ft. Ft. to ft.

Type of screen or perforations

Static Water level, for non-flowing well: 10 feet.

Shut-in pressure, for flowing well: lb./sq. in. on: July 20 - 1959 (date)

Pumping water level 50 feet at gal. per min. 20

How tested: Bailer

Length of test 1 hr.

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

(over)

4.9

165 359

Copy

Log of Well

Depth, feet From	To	Description of Material Drilled
0	6	pit
6	22	Sand gravel
22	83	fine sand water
83	85	Sand gravel water

I received and filed this instrument for record on the 14 day of Oct 1957 at 9:45 o'clock A.M., and recorded in Missoula County, State of Montana.
Witness my hand:
MARVIN S. BEHRER, County Recorder
By Martha Shelden Deputy
Fee $ ..... Paid

~~I received and filed this instrument for record on the ..... day of ..... 19..
at ..... o'clock ..... M., and recorded in Missoula County, State of Montana
Witness my hand
MARVIN S. BEHRER, County Recorder
By ..... Deputy
Fee $ ..... Paid~~

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

File No.

T 13 N R 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963
STATE ENGINEER

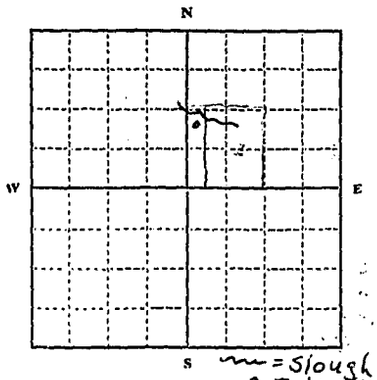
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Robert Wilbur Steele (Name of Appropriator), of Route # 1 (Address) Missoula (Town)

County of Missoula State of Montana

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



~ = Slough
• = well

SW 1/4 NE Sec. 7 T 13N 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 ground water for household use, stock use, and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Use began June 1959 and has been continuous ever since. Irrigation use has steadily increased since well was drilled

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 80 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 One acre around the house site that is located in W½ W½ SW¼ NE¼ Sec. 7, T.13N, R20W.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Deep well pump 1 H.P. motor, electric location of well under south edge of house

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater June 1959 for deep well August 1963 for pumping out of slough located in same ten acre tract described above.

8. The depth of water table approximately 20 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater well 7 inch, 70 feet deep slough (partly fed by ground water) pump on slough is 1½ H.P. 100 gallons per minute

10. The estimated amount of groundwater withdrawn each year average household plus irrigation for 1 acre

11. The log of formations encountered in the drilling of each well if available round gravel to a depth of 18 feet, then very fine sand or silt to a depth of 60 feet, then substantial gravel where clear water was found. Well had to be driven below the fine sand and silt to obtain clear water

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

Signature of Owner Robert Steele

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.

20082

957 2154.31

I received and filed this instrument for record on the 31st day of Dec 1963 at 1 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:
MARVIN S. BEHNKE County Recorder
By Martha Stehnes Deputy
Fee $ 7.00 Paid

GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
JUN 28 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Missoula 7

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 George Stemple

Address Route 1 Big Flat
Missoula, Mont

Date well started 6/6/69

completed 6/7/69

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

Equipment used Driver
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

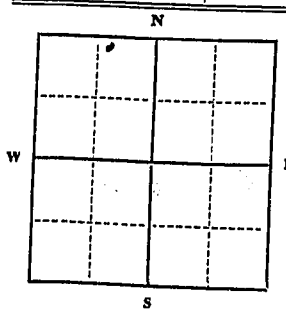
*Describe

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

For Administrator's Use	
File	333875, 2516
	June 25, 1973
GW 1	12:30 p.m.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
4"	4" Sch 40	+2	-54	3/16x6"	-50	-54



Static water level 18' ft.*
Pumping water level [redacted] 20 ft.*
at 80 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Compressor
for 4 hours.
Power 125 Pump Gearbirdp
Remarks: (Gravel packing, cementing, packers, type of shutoff)

N.½ N.W.¼ Sec. 7
T. 13 N/S R. 20 E/W

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

Driller's Signature George Stemple

Driller's Address Route 1 Big Flat
Missoula Mont LICENSE NO. 238

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	12	SAND & GRAVEL
12	14	SAND & CLAY
14	18	SAND & GRAVEL
18		STATIC WATER
18	20	CLAY
20	26	SAND
26	39	GRAVEL & CLAY
39	45	SAND & GRAVEL
45	54	GRAVEL

-54 Show exact depth of bottom

54085

#2516 333873

I received and filed this instrument for record on the 25 day of June 1973 at 12:30 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By [illegible] Deputy

Fee $ 2.00 Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED JUN 2 8 1973

County Missoula 7

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 George Stemple

Address Route 1 Big Flat Missoula Mont.

Date well started 5/11/64

completed 5/13/64

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

Equipment used Driven (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

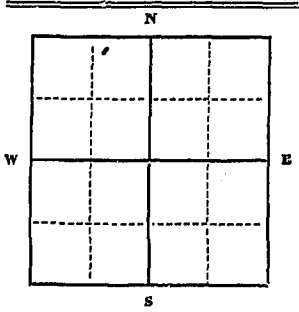
*Describe .....

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 .....

For Administrator's Use	
File	33387X: 2517
	June 25, 1973
GW 1	12:32 p.m.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
4"	4" Sch 40	+2	-39	3/16 x 6"	-34	-39



N.W. ¼ N.W. ¼ Sec. 7
T. 13 N/S R. 20 E/W

Static water level 18' ft.*
Pumping water level 20 ft.*
at 80 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Compressor
for 4 hours.
Power ..... Pump Gearhart HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) .....

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

Driller's Signature George Stemple

Driller's Address Route 1 Big Flat Missoula Mont. LICENSE NO. 238

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	12	SAND & GRAVEL
12	14	SAND & CLAY
14	18	SAND & GRAVEL
18		STATIC WATER
18	20	CLAY
20	26	SAND
26	39	GRAVEL

39 Show exact depth of bottom

54084

#2517 333874

I received and filed this Instrument for record on the 25 day of June 19 73 at 12:32 o'clock P M., permanent files of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By Linda Johnson, Deputy
Fee $2.00 Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner George Stemple

Address Route 1 Big Flat
Missoula Mont

Date well started 4/10/69
completed 4/11/69

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

Equipment used Driver
(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☒

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

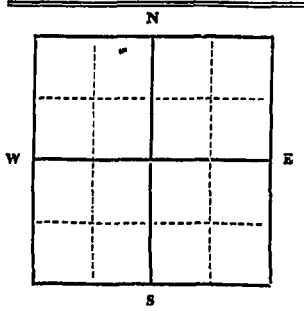
*Describe

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

For Administrator's Use
File 333878; 25221
June 25, 1973
GW 1 12:40 p.m.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	8" Sch 40	+2	-28	3/16 x 6"	-22	-28



N.W. ¼ N.W. ¼ Sec. 7
T. 13 N/S R. 20 E/W

Static water level 3' ft.*
Pumping water level 9' ft.*
at 160 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Compressor
for 3 hours.
Power 125 Pump Gusher HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Driller's Signature George Stemple

Driller's Address Route 1 Big Flat
Missoula Mont LICENSE NO. 238

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	8	SANDY SOIL
	3'	STATIC WATER
8	12	SAND & GRAVEL
12	14	CLAY
14	22	SAND & GRAVEL
22	28	GRAVEL

28 Show exact depth of bottom

54078

333878

I received and filed this instrument for record on the 25 day of June 1973 at 12:40 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By Linda Dyrnes, Deputy

Fee $ 3.00 Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Missoula 7

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 George Temple

Address Route 1 Big Flat
Missoula Mont

Date well started 3/12/73
completed 3/14/73

For Administrator's Use
File 333879
June 25, 1973
GW 1 12:42 p.m.

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

Equipment used Driver (Churn drill, rotary or other)

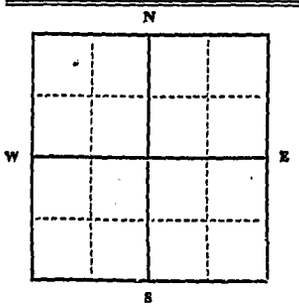
Water Use: Domestic ☐ Municipal ☑ Stock ☐ Irrigation ☐
TRAILER COURT #4 (RANDITCH)
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe .....

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

ESTIMATED ANNUAL WITHDRAWAL .....

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8-11	5" Sch 40	+2	-39	3/16x6"	+2	-39



NW 1/4 NW 1/4 Sec. 7
T. 13 N/S R. 20 E/W

Static water level 18 ft.*
Pumping water level 20 ft.*
at 120 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Compressor
for 4 hours.
Power 125 Pump gasline HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) .....

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

Driller's Signature George Temple

Driller's Address Route 1 Big Flat
Missoula Mont LICENSE NO. 238

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	7	SAND
7	12	SAND & GRAVEL
12	14	CLAY
14	18	SAND & GRAVEL
18		STATIC WATER
18	21	CLAY
21	27	SAND
27	39	GRAVEL

39 Show exact depth of bottom

54079

#2522

333879

I received and filed this instrument for record on the 25 day of June 1973 at 12:42 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By Linda D Johnson Deputy

Fee $ 2.00 Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED JUN 18 1973 MONTANA STATE BOARD OF WATER RESOURCES

County Missoula 7

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, 1952

(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 George Stemple

Address Route 1 Big Flat
Missoula Mont

Date well started 5/10/73

completed 5/12/73

For Administrator's Use
File 2520; 333877
12:38 p.m.
GW 1 June 25, 1973

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

Equipment used Driven
(Churn drill, rotary or other)

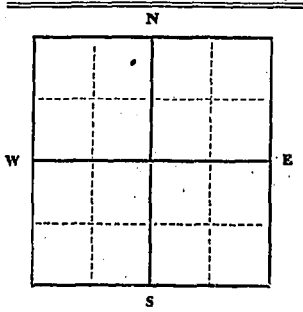
Water Use: Domestic ☐ Municipal ☒ Stock ☐ Irrigation ☐
Trailer Court & 5 well
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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)
5"	5" Sch 40	+2	-39	3/16 x 6"	-34	-39



N½ ¼ N.W. ¼ Sec. 7
T. 13 N/S R. 20 E/W

Static water level 16 ft.*
Pumping water level 19 ft.*
at 120 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Compressor
for 6 hours.
Power 125 Pump gasolin HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) .....

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

Driller's Signature George Stemple

Driller's Address Route 1 Big Flat
Missoula Mont LICENSE NO. 238

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	12	GRAVEL & SAND
12	14	CLAY
14	16	GRAVEL & SAND
	16	STATIC WATER
16	20	SANDY GRAVEL
20		CLAY
20	29	GRAVEL & SAND
29	39	GRAVEL

39 Show exact depth of bottom

54081

#2520 333874

I received and filed this Instrument for record on the 25 day of June 1973 at 12:35 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By Linda Johnson, Deputy

Fee $ 2.00 Paid

GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED

County Missoula 7

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 George Stempel

Address Route 1 Big Flat
Missoula Mont

Date well started 3/10/73
completed 3/11/73

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

Equipment used Driver
(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☒ Stock ☐ Irrigation ☐
TRAILER COURT #3 WELL (RANGITCH)
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

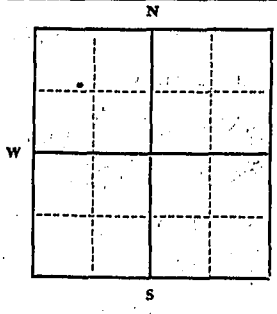
*Describe .....

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 .....

For Administrator's Use	
File 333880; 2523	
June 25, 1973	
GW 1 12:44 p.m.	

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
5"	5" SCH 40	+2	-39	3/16X6"	34	39



NW ¼ NW ¼ Sec. 7
T. 13 N/S R. 20 E/W

Static water level 17 ft.*
Pumping water level 19 ft.*
at 120 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Compressor
for 2 hours.
Power 125 Pump gearhead HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) .....

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

Driller's Signature George Stempel

Driller's Address Route 1 Big Flat
Missoula Mont LICENSE NO. 238

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	8	SAND
8	12	SAND & GRAVEL
12	14	CLAY
	17	STATIC WATER
14	18	SAND & GRAVEL
18	21	CLAY
21	28	SAND & GRAVEL
28	39	GRAVEL

39 Show exact depth of bottom

54080

#2533 333880

I received and filed this Instrument for record on the 25 day of June 1973 at 12:44 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By Linda Dahmen Deputy

Fee $ 2.00 Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
JUN 25 1973

County Missoula 7

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 George Stemple

Address Route 1 Big Flat
Missoula Mont

For Administrator's Use
File 333876, 2519
June 25, 1973
GW 1 12:36 p.m.

Date well started 6/2/70

completed 6/3/70

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

Equipment used Driver
(Churn drill, rotary or other)

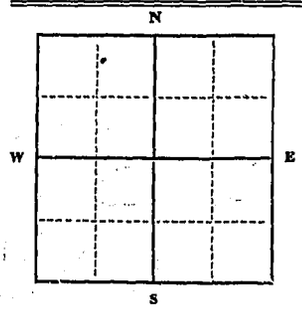
Water Use: Domestic ☐ Municipal ☒ Stock ☐ Irrigation ☐
TRAILER COURT # 2 Well
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
4"	4" SCH40	+2	-39	3/16 X 6"	-32	-39



N½ ¼ NW ¼ Sec. 7
T. 13 N/S R. 20 E/W

Static water level 18 ft.*
Pumping water level 22 ft.*
at 100 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Compressor
for 8 hours.
Power 125 Pump gearhead HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Driller's Signature George Stemple

Driller's Address Route 1 Big Flat
Missoula Mont LICENSE NO. 238

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	12	SANDY SOIL
12	14	CLAY
14	18	SANDY GRAVEL
	18	STATIC WATER
18	20	CLAY
20	26	SAND & GRAVEL
26	28	SAND
28	39	GRAVEL

39 Show exact depth of bottom

54082

333876

#2519

I received and filed this Instrument for record on the 25 day of June 1973 at 12:30 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By Linda D. Johnson, Deputy

Fee $ 2.00 Paid

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED

County Missoula 7

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 George Stempel

Address Route 1 Big Flat
Missoula Mont

Date well started 4/22/70
completed 4/23/70

For Administrator's Use
File 5338.75.2516
12:34 p.m.
GW June 25, 1973

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

Equipment used Driver (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☒ Stock ☐ Irrigation ☐
Trailer Court well #1
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe .....

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

ESTIMATED ANNUAL WITHDRAWAL .....

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
4"	4" Sch 40	+2	-35	3/16 x 6"	-30	-35

N
W E
S

Static water level 18 ft.*
Pumping water level 21 ft.*
at 80 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Compressor
for 3 hours.
Power 125 Pump Centrifugal HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) .....

N.½ ¼ N.W. ¼ Sec. 7
T. 13 N/S R. 20 E/W

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

Driller's Signature George Stempel

Driller's Address Route 1 Big Flat
Missoula Mont LICENSE NO. 238

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	8	SANDY SOIL
8	12	SAND & GRAVEL
12		CLAY
12	18	SAND & GRAVEL
	18	STATIC WATER
18	20	CLAY
20	28	SAND & GRAVEL
28	39	GRAVEL

-39 Show exact depth of bottom

54083

#2518 333875

I received and filed this Instrument for record on the 25 day of June 1973 at 12:34 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By Linda D Johnson, Deputy

Fee $ 2.00 Paid

T. 13 R. 20 7

County Missoula

RECEIVED
OCT 8 1958
STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: ~~Kenneth~~ Kenneth Hayes Address: 620 S 5th W

Driller: John Farrell Address: Arbee

Date Started: Sept 20 - 1958 Date Completed: Sept 25 - 1958

Location: Sec. 7 T. 13 R. 20 ¼ sec. 7

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

Water use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]

Industrial [ ] Drainage [ ] Other:

Casing: 8 ft. to 47 ft. Type: Black Size: 5"

Casing: ft. to ft. Type: Size:

Casing: ft. to ft. Type: Size:

Perforated or Screened: Ft. to ft. Ft. to ft.

Type of screen or perforations:

Static Water level, for non-flowing well: 12' feet.

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

Pumping water level 30 feet at 30 gal. per min.

How tested: Pump

Length of test 5 Hrs

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

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	8	Concrete pit
8	47	5" Casing
8	17	gravel boulder
17	47	water sand gravel

I received and filed this instrument for record on the 26 day of Dec 1958 at 10:00 o'clock A.M., Permanent Files of Missoula County, State of Montana
Witness my hand
ROSE DAVIES, County Recorder
By Mary Lee Hurley Deputy
Fee $ 5.00 paid

#85
155 8/75

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

File No.

T 13N R 20W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED JAN 3 1964 STATE ENGINEER

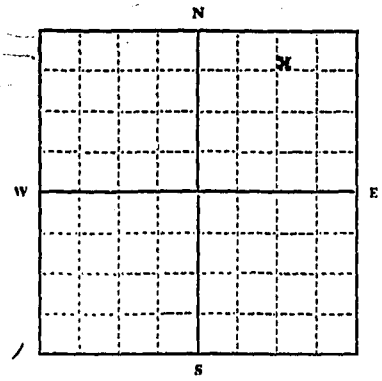
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. GEORGE DUSSAULT (Name of Appropriator), of Rte. 2, (Address) Missoula (Town)

County of Missoula State of Montana

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



N½NE ¼ Sec. 8 T 13N 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 1958 continuous. Previous well was surface and constructed in 1878.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 25 gallons minute

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 1 h.p. electric motor and pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater March, 1958 - commenced and completed

8. The depth of water table 6 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6 inch casing - 97 feet deep

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

11. The log of formations encountered in the drilling of each well if available gravel for about 10 feet; 15 feet hard rock, then gravel remainder.

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 Geo. Dussault

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.

20289

1170

I received and filed this instrument for record on the 31 day of Dec 1962 at 6:09 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:

County Recorder

By Ethel Lane Deputy

Fee $ 2.00 Paid

GW 2 STATE WATER CONSERVATION BOARD

JUN 16 1967

File No.....

DUPLICATE

Bille..... McDermott.....
Butzerin..... McNulty.....
Coyle..... Morton.....
Darlinton..... LOG Sullivan.....
Dickert.....

Approved Stock Form—State Publishing Co., Helena, Montana—423.

T. 13 R. 20

County Musselshell

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.....)

Owner Arnold Gold Address R#1 Big Fork

Driller Self Address Musselshell, Mont

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

Date well started 5/65 Date completed 8/65

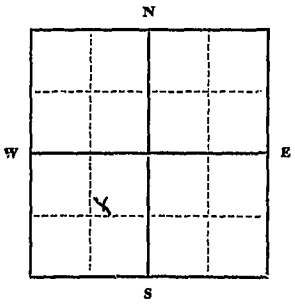
Type of well Driven (Dug, Driven, bored or drilled) Equipment used Pounding device (Churn drill, rotary or other)

Water use: Domestic ☑ Municipal ☐ Stock ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐ Lawn & Garden Use

Water comes 12' to 16 ft from top & around in pipe

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)
4"	4" Casing used	0	40 ft			
		~~[illegible]~~	~~[illegible]~~	~~[illegible]~~		
		Sand & Gravel	20 - 40	Point used 12" long		
		Sand & Gravel	40 - 100	100 ft - 108 ft.		



Static Water Level for non-flowing well 20 feet.

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

Pumping Water Level 26 feet

at.....gal. per minute.

Discharge in gal. per min. of flowing well Can't pump dry

How Tested By County Health Dept

Length of Test A sample

Remarks: (Gravel packing, cementing, packers, type of shutoff) None

Located on 2½ acres

SE ¼ of NW ¼ Sec. 8 T. 13 R. 20

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

.....(Continue on reverse side)

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

108 ft depth of well

Show exact depth of bottom.

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

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

Driller's License Number

Driller's Signature

42,066

1717

261578

I received and filed this Instrument for record on the 14 day of June, 19 67 at 12:15 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:
Veramae R. Krause, County Recorder
By: G. Billings, Deputy
Fee $ None Paid

STATE WATER CONSERVATION BOARD

JUN 14 1967

USAGE MONTANA

W 2

File No.

DUPLICATE

Approved Stock Form—State Publishing Co., Helena, Montana—1855 3

T. 13 R. 20 8

County Missoula

LOG

Top of Ground

(Elev. above sea level)

0- 6 Pit

6-10 Sand and gravel

9 Static water level

10-31 Sand, gravel and water

31-50 Sand, clay and water

50-53 Clay

53-94 Silty sand and water

94-96 Sand, gravel and water

96 Exact depth of bottom

Show exact depth of bottom.

MONTANA WATER RESOURCES BOARD
RECEIVED
JUL 24 1969

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Owner: Ed Lowe Address: Route 1, Big Flat Missoula

Driller: OKC Drilling Address: Box 670, Missoula

Date of Notice of appropriation of groundwater: -----

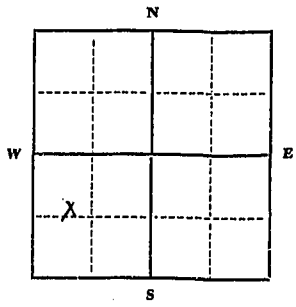
Date well started: July 3, 1969 Date completed: July 8, 1969

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" 17#	5' down	96'	----	---	----



NW/4 SW/4 Sec. 8 T. 13 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 9 feet.

Shut-in Pressure for Flowing Well ----

Pumping Water Level 9 feet at 40 gal. per minute.

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

How Tested: Bailer

Length of Test: 3 hours

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

(Continue on reverse side)

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

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

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

185
Driller's License Number

Charles F. Hollenstein
Driller's Signature.

45473

283200

I received and filed this Instrument for record on the 21st day of July 1969 at 1:30 o'clock P. M. permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Crouse, County Recorder,

By M. M. Conaughy, Deputy

Fee $ 2.00 Paid Cash

Helena Independent Record

File No.....

T. 13 N R. 20 W 8

DUPLICATE

County.....

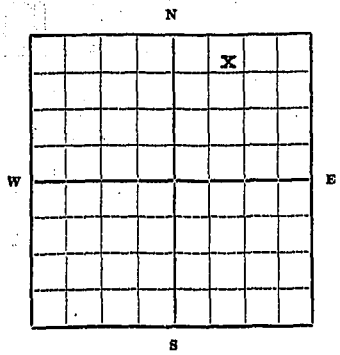
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Marguerite L. Miller, of Rt. #2, Grass Valley, Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE ¼ Sec. 8 T13 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 Household, Livestock and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been First used approximately 1883. Used continuously until 1954 then intermittently

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 10 acres. NE ¼, Sec. 8, T 13, R 20 Marguerite L. Miller

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater well hand excavated approximately 1883. Other information unavailable

8. The depth of water table 10 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater well hand excavated, 16 feet deep. Other information unavailable.

10. The estimated amount of groundwater withdrawn each year 100,000 gallons yearly

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

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

Signature of Owner Marguerite L. Miller

Date December 27, 1963

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

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

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

19899

215050

610

Copy

I received and filed this instrument for record on the 30 day of June 1965 at 8:05 o'clock A.M., permanent files of Missoula County, State of Montana

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

1—Helena Independent Record

File No.....

T. 13 N. R. 20 W. 8

DUPLICATE

County Missoula

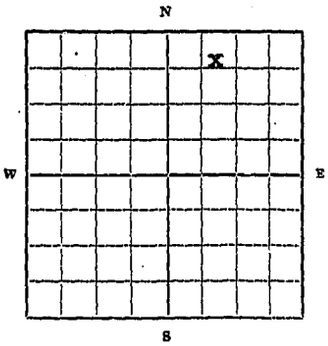
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Margueritte L. Miller, of Rte #2, Grass Valley, Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE ¼ Sec. 8 T. 13 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 irrigation, Livestock water and household

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Drilled 1954, used daily since

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1000 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 10 acres. NE¼ Sec. 8, T 13, R 20 Margueritte L. Miller, Kona Ranch

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Well drilled in 1954. Other information unavailable

8. The depth of water table 15 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 Drilled well. 6 inch diameter 30 feet in depth. Pump is a jet type pump, electrically driven

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

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

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

Signature of Owner Margueritte L. Miller

Date December 27, 1963

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

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

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

19902

673 2150 53

Copy

I received and filed this instrument for record on the 30 day of Dec 1963 at 2:12 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNKE, County Recorder

By Martin S. Behnke Deputy

Fee $ 2.00 Paid

G —Helena Independent Record

File No.....

T. 13 N R. 20 W

DUPLICATE

County.....

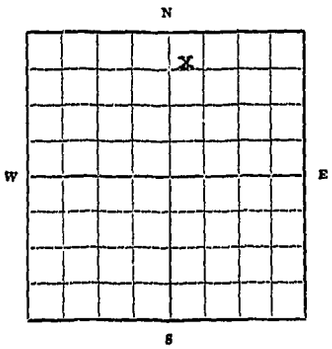
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Margueritte L. Miller, of Rt. #2, Grass Valley, Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE ¼ Sec. 8 T. 13 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 Livestock Water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Well driven in 1950. Used daily since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1000 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 not applicable

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

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

8. The depth of water table 10 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 driven well, 4 inches in diameter. 15 feet in depth. Pump is a jet type electrically driven.

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

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

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

Signature of Owner Margueritte L. Miller

Date December 27, 1963

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

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

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

19904

6 75

215055

Copy

I received and filed this instrument for record on the 30 day of Dec 1968 at 8:11 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. BEHNER, County Recorder

By ..... Deputy

Fee $ 3.00 ..... Paid

GW 2

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

File No.

T. 13 R. 20 8

DUPLICATE

County Missoula

LOG

MONTANA WATER RESOURCES BOARD
RECEIVED
MAY 13 1968

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Karl + Pia Paprotny Address R.1, Big Flat, Missoula

Driller Duane R. Lange Address R.1, Missoula

Date of Notice of appropriation of groundwater

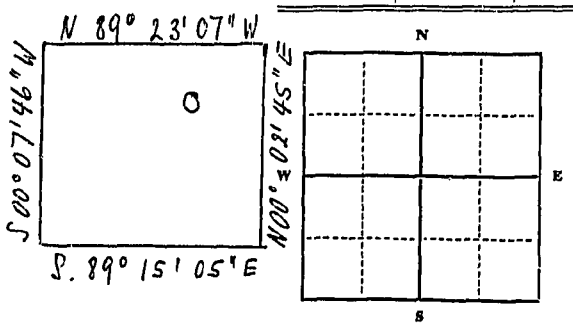
Date well started Oct. 1966 Date completed Dec. 1966

Type of well Dug (Dug, driven, bored or drilled) Equipment used Backhoe (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)
5'	Cement	0'	15'	–	–	–



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

Shut-in Pressure for Flowing Well

Pumping Water Level feet at 20 gal. per minute.

Discharge in gal. per min. of flowing well –

How Tested Pump

Length of Test 2 years

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

NW 1/4, NE 1/4, SW 1/4 Sec. 8 T. 13 N R. 20 W

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

(Continue on reverse side)

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

Will irrigate 8 acres

Show exact depth of bottom.

OWNER + I DID WORK TOGETHER WITH BACKHOE + SHOVELS

Driller's License Number

Duane R. Lange

Driller's Signature.

45,207

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.