GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—50551 3

36

File No.....

T. 15 N R. 21 W

County Missoula

DUPLICATE

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 Gary K. Dunlop Address Frenchtown, Montana

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

Date of Notice of appropriation of groundwater ----

Date well started June 30, 1970 Date completed July 4, 1970

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

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

LOG

Top of Ground

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

0- 1 Topsoil

1- 3 Gravel and clay

3- 7 Clay

7- 10 Gravel and clay

10- 19 Clay

19- 80 Gravel and clay

80 Static water level

80-106½ Sand, gravel and water

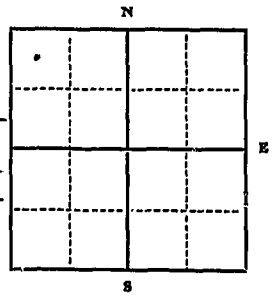
106½ Exact depth of bottom

Show exact depth of bottom.

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" 17#	1 up	106½	---	----	----

Doc. No. 292980
Filed for record
this 13 day of July
A. D. 19 70, at 4:30
o'clock p M.



NW¼ Sec. 36 T. 15 N R. 21 W
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 80 feet.

Shut-in Pressure for Flowing Well ---

Pumping Water Level 80 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. Hellenstein
Driller's Signature.

4 66 70

2015

292980

I received and filed this Instrument for record on the 13 day of July 1970 at 4:30 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

Vernice R. Crouse, County Recorder

By Doretta A Armstrong, Deputy

Fee $2.00 Paid

GROUNDWATER INDEX

Page 0

County Missoula Twp. 15 N Rge. 20 W

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
12	Mapston, R. Wesley	GW 3	306889	
12	Mays, Herschel	GW 3	278834	
12	Morrison, Monte	GW 2	321740	
12	Stark, Oscar E.	GW 2	322238	
13	Mays, Raymond	GW 2	276251	
13	Peterson, James G	GW 2	289734	
13	Peterson, James G	GW 2	1271	
13	Peterson, James G	GW 2	289735	
23	Clarke, Conald L.	GW 2	327248	
23	Hanson, Gary J.	GW 2	299851	
23	Johnson, Harry M.	GW 3	1246	
24	Kramer, Jerry (Jr.)	GW 2	252827	
25	Jensen, Nels	GW 2	299631	
26	Lackner, Claude	GW 3	328337	
26	Cunningham, C.C.	GW 3	307172	
26	Erlandson, Carl	GW 2	269442	
26	Erlandson, Fred	GW 2	198972	
26	Gallagher, Edward	GW 3	293455	
26	Hayes, Robert C	GW 4	209252	
26	Hayes, Robert C	GW 4	209249	
26	Hayes, Robert C	GW 4	209251	
26	Johns, Walter	GW 2	231056	
26	Pearson, Clyde F.	GW 3	215004	
27	Davis, Arthur A.	GW 1	320088	
27	Davis, Arthur A.	GW 3	309594	
27	Willig, Carl	1959 Log	184107	
27	Willig, Carl	GW 2	228435	
34	Thompson, Sam F.	GW 3	215444	
35	Peterson, Clarence W	GW 4	214776	
23	Ryan, Joseph L.	3	215199	
23	" " "	4	215202	

GW 3

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

File No.....

DUPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED
FEB

T. 15 N. R. 20 W.

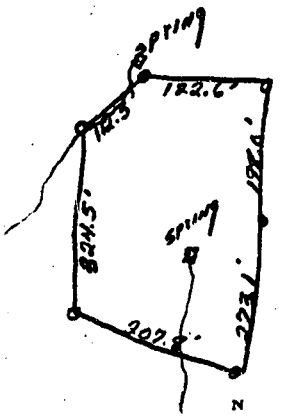
County Missoula

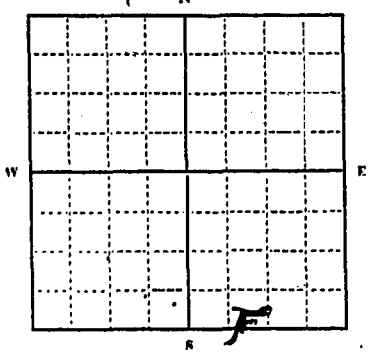
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

Developed After January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961)





.....¼..... Sec..... T..... R.....

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

Date of Appropriation of Groundwater February 13, 1968

Owner Herschel Mays Address Box 42, Missoula

Contractor (if any) Carl Troupp

Address of Contractor Lolo, Montana

Date Started Sept. 1968 Date Completed Sept. 1968

1) Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.) Developed Spring

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

3) Depth of water table 10'

4) Use of the water Household uses & irrigation

5) Amount of groundwater claimed (in miner's inches, or gallons per minute) 40 gallons per minute

6) If used for irrigation, give number of acres and description of land 1.9 acres,

A parcel of Land Located in The SW¼ SE¼ & The SE¼ SE¼ of Section 12, Township 15 North, Range 20 West

7) Estimate amount of water used each year

Signature of Owner Herschel R. Mays

Date 2-13-69

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.

45,009

1856 278834

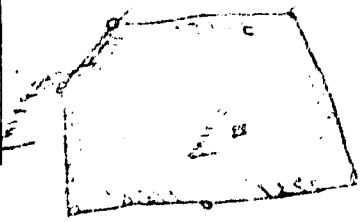
Filed received and filed this Instrument for record on the 1st day of Feb 1969 at 2:30 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

Vazamae R. Crouse, County Recorder

By Mrs. M. Conaghan Deputy

Fee $2.00 Paid cash



12

GW 2 Revised 1959
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 Marion Morrison

Address 124 N. Davis
Missoula, Montana

Date well started Aug. 29, 1972
completed Sept. 1, 1972

For Administrator's Use
File 2327-321740
Sept. 7, 1972 - 10:00 a.m.
GW 1

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

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

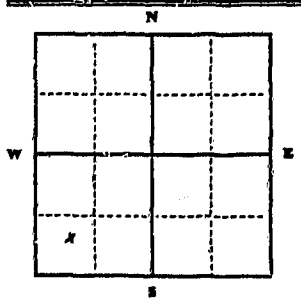
Water Use: Domestic ☑ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"ID	6"ID 17 lb per ft. g.i.	1'5" above g.l.	91'		none	



SW 1/4 SW 1/4 Sec. 12
T. 15 (S) R. 20 (W) E

Static water level 26 ft.*
Pumping water level 80 ft.*
at 12 gallons per minute,
measured 15 minutes after pumping began.
*Measured from ground level.
Well developed by test pump
for 2 hours.
Power Elec. Pump 3/4 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)
Bailer tested 4½ Hours

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

Driller's Signature Delacey Camp
CAMP WELL DRILLING & PUMP SUPPLY
Driller's Address 1522 S. 14th W., Missoula, Montana 59801

LICENSE NO. 7

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	15	Clay, Gravel & Cobble Stones
15	62	Clay & Gravel
62	64	Clay, Sand, Gravel & Seep of Water
64	86	Clay and Gravel
86	91	Sand Gravel, a little Clay. Water

91' Show exact depth of bottom

51,334

2327

321740

I received and filed this Instrument for record on the 2 day of Sept. 19 92 at 10:20 o'clock A.M. permanent files of Missoula County, State of Montana

Witness my hand.

Vivian A. Crouse, County Recorder

By Mary Ehrlich Deputy

Fee $ 9.00 Paid

GW 2 Revised 1969
STATE PUBLISHING COMPANY

12

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: Oscar E. and Nellie M. Stark

Address: Route 2, Evaro Hill
Missoula, Montana

Date well started: 7/28/72
completed: 8/ 1/72

For Administrator's Use
File W-2332 - 322238
Sept 18, 1972 - 11:30 a.m.
GW 1

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

Equipment used: Air Rotary (Churn drill, rotary or other)

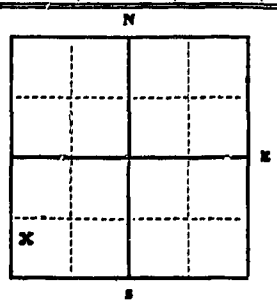
Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☒
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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). Approximately 10 Acres

ESTIMATED ANNUAL WITHDRAWAL 21,024,000 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"	+2	98			
	5 9/16" OD liner	65	128'10"	Torch Cut	107	128



SW ¼ SW ¼ Sec. 12
T. 15 N R. 20 ~~E~~ W

Free Flow Flowing over top of casing
Static water level ft.
Pumping water level 42 ft.*
at 40 gallons per minute,
measured 180 minutes after pumping began.
*Measured from ground level.
Well developed by Air Lift Pump
for Three hours.
Power Diesel Pump 150 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well through open bottom of casing, from cracks & seams in rock & perforations in cont'd

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

Driller's Signature LIBERTY DRILLING COMPANY

Driller's Address 2500 Reserve Street

Missoula, Montana 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) 4000'

From (Feet)	To (Feet)	
0	9	Gravel embedded in gray clay
9	21	Gravel embedded in red and brown clay
21	77	Gravel embedded in tan clay
77	79	Gravel with stringers of tan, red & gray clay
79	81	Pink sandstone with stringers of clay
81	99	Pink sandstone with brown and tan rock in thin alternate layers
99	107	Pink sandstone. Seeps
107	123	Pink & purple rock in thin alternate layers
123	127	Light pink sandstone
127	129	Brown & tan sandstone
129	133	Pink - purple sandstone 12 GPM
133	159	Fractured light pink sandstone. 40 GPM Total

159 ft. Show exact depth of bottom

Water rises in well free flow over top of casing two GPM

51,431

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

GW 2

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

File No.....

T. 15 N R. 20 W

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.....)
GL	top soil
1'	
1'	tan clay
17'	
17'	seep of surface
17'	water
17'	tan clay with sand
59'	& gravel imbedded
59'	sand, gravel
60'	& water

Show exact depth of bottom.

Owner RAYMOND MAYS Address.....

Driller KEN WILLIAMS WELL DR. Address 1558 So. 5th W. MISSOULA, MONTANA

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

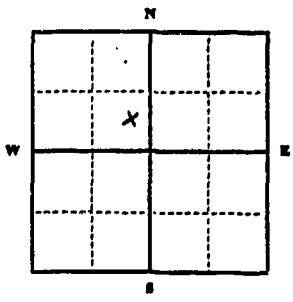
Date well started OCT. 30, 68 Date completed OCT. 31, 68

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6" I.D.	6-5/8" O.D. 17 lbs. ½" side-wall	ground level	60'			



SW 1/4 N.W. 1/4 Sec. 11 T. 15 N 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 19 feet.

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

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

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

How Tested bail test

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.

151
Driller's License Number

Kenneth T. Williams
Driller's Signature.

44,756

GW 2

13

Approved Stock Form—State Publishing Co., Helena, Montana—30331

File No.

T 15N R 20W

DUPLICATE

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Top of Ground
(Elev. above sea level Approx. 3936 ft.)

Formations Log:

0 - 2 Gravel and top-soil.
2 - 33 Tan clay and gravel.
33 - 43 Gravel and tan clay.
43 - 46 Silty clay and gravel.
46 - 49 Fine gravel.
49 - 50 Tan clay with gravel mixed in.
50 - 52 Gravel with stringers of tan clay.
52 - 61 Gray clay with some gravel mixed in.

Owner James G. and Lucille R. Peterson Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed.

Date well started 9/18/69 Date completed 9/23/69

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 ☐

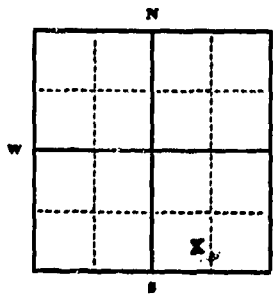
Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

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 14"	+1'6"	43'	6" Johnson Armco Iron Wire Wound Water Well Screen	43	51
		51	61	10' tailpipe with a solid closed bottom		

Water rises in well 30 ft. from surface.

Doc. No. 287734
Filed for record 25 day of March 1970 at 4:25 p.m.

MONTANA WATER RESOURCES BOARD
RECEIVED
MAR 27 1970



E½ SW¼ SE Sec 13 T. 15N 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 30 feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 39 feet at 60 gal. per minute.

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

How Tested Compressor test

Length of Test 9 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well through the slots in 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).

Show exact depth of bottom.
Bottom of well 61 ft.

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

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

52
Driller's License Number

William F. Coburn
Driller's Signature.

46273

RJD. Note - This well is 52' from well Doc. No. 287735

1967 289734

I received and filed this instrument for record on the 25th day of March 1972 at 4:25 o'clock P.M. permanent files of Missoula County, State of Montana

Witness my hand.

Vernene R. Crouse, County Recorder

By M. McGaughey Deputy

Fee $2.00 Paid Cash

GW 2

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

File No.....

T 15N R 20W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 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 3936')

water level 25'

Gravel 0'–40'

water bearing strata 122'–132'

Clay 40'–117'

Shale 117'–139'

bottom of well 139'

bottom of casing 121'7"

Owner James G. Peterson Address Rt 2 Missoula Mont

Driller Harold K. Pickens Address Missoula Mont

Date of Notice of Appropriation of Groundwater Dec 29 1963

Date well started 8-15-63 Date Completed 9-2-63

Type of well drilled (dug, driven, bored or drilled) Equipment Used cable tool rig (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)
5 inch	5 inch 14.7#	0	121.7	none	—	—

Static Water Level for non-flowing Well 25 feet.

Shut-in Pressure for Flowing Well —

Pumping Water Level 25 feet at 7 gal. per minute.

Discharge in gal. per min. of flowing well —

How Tested pump Length of Test 10 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) water used for household use only

N
W E
S
⊙ – well loc.

¼ Sec. 13 T15N R20W

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

Show exact depth of bottom.

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.

20390

1271

Copy

I received and filed this instrument for record the 31st day of Dec. 1963 at 8:00 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

County Recorder

By Martin A. Behnas Deputy

Fee $2.00 Paid

GW 13

Approved Stock Form—State Publishing Co., Helena, Montana—46,57[illegible]3

File No. ..... Doc. No. 289735

Filed for record this 25 day of March A. D. 19 70, at 4:30 o'clock p M.

DUPLICATE

LOG

T 15N R 20W

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Owner James G. and Lucille B. Peterson Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed.

Date well started 9/10/69 Date completed 10/9/69

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

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

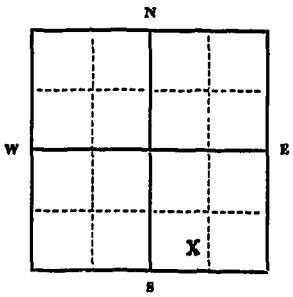
Top of Ground Approx. (Elev. above sea level 3936 ft.)

Formations Log:

0 - 2 Gravel and topsoil.
2 - 34 Tan clay and gravel.
34 - 46 Gravel mixed in tan clay.
46 - 52 Fine gravel. Water.
52 - 54 Clay with soil mixed in.
54 - 56 Tan clay and gravel.
56 - 82 Gray clay.
82 - 97 Gray clay with some gravel mixed in.
97 - 134 Gray and green clay with gravel mixed in.
134 - 139 Gray shale imbedded in clay.
139 - 141 Tan clay.
141 - 149 Gray clay with gravel mixed in.
149 - 153 Yellow clay and gravel.
153 - 171 Light tan clay.
171 - 174 Orange and white clay in alternate layers.
174 - 185 Light tan clay.

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	8 5/8" OD x ¼"	+1'5"	125	Mills knife	46'	52'



E½ SW ¼ SE Sec 13 T 15N 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 31 feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 41 feet at 30 gal. per minute.

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

How Tested Bailer test

Length of Test 8 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well through perforations in casing. Backfilled hole and grouted with 3 feet of cement on top of backfill, to 112 feet.

(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).

Water rises in well 31 ft. from surface.

MONTANA WATER RESOURCES BOARD
RECEIVED
MAR 27 1970

Show exact depth of bottom.
Bottom of well 185'

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.

R.J.B. Note - this well is 58' from well Rec. No. 289734 46274

1968 289735

I received and filed this Instrument for record on the 25th day of March 19 20.
at 4:30 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 Cash

GW 2

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

File No.....

RECEIVED

JAN 21 1969

T. 15 R. 20

DUPLICATE

Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground	
(Elev. above sea level.....)	
0'	
46'	Clay & Gravel
46'	
48'	Little Water
48'	
120'	Shale Rock
120	
145'	Shale Rock & Water
145'	Bed Rock
145'	Show exact depth of bottom.

Owner.....Ronald L. Clarke.....Address.....Evaro Mont.....

Driller.....John Farrell.....Address.....Arlee Mont.....

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

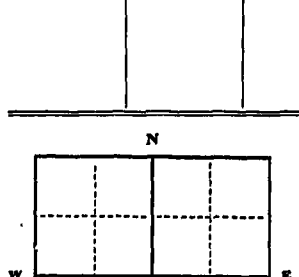
Date well started.....Oct 1 1969.....Date completed.....Oct 11 1969.....

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" 17 #	0	145			



NE ¼ SE Sec. 23 T. 15N 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 .....40.....feet.

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

Pumping Water Level.....100.....feet at.....8.....gal. per minute.

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

How Tested.....Pump.....

Length of Test.....2 Hrs.....

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.

.....14.....
Driller's License Number

John Farrell
Driller's Signature.

52,308

#107

327248

I received and filed this instrument for record on the 24 day of Jan 19 83 at 9:32 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By Margaret Bailey, Deputy.

Fee $ 2.00 Cash Paid

3 GW 2 Revised 1969
13—3M—10/69

County Missoula 25

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA WATER RESOURCES BOARD RECEIVED MAR 2 1971

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Gary J. Hannon

Address Evaro Mont

Date well started Feb 3 1971

completed Feb 13 1971

For Administrator's Use
File 299851 Feb. 24, 1971 9:00 A.M.
GW 1

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

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

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

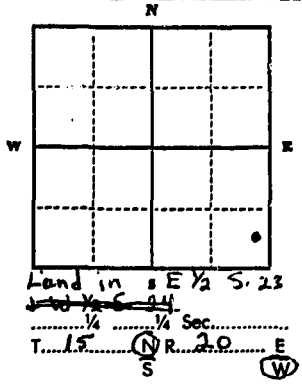
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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") 17#	0	67			



Land in SE ½ S. 23
~~SW ¼ S. 24~~
¼ ¼ Sec.
T. 15 N S R. 20 E W

Static water level 5 ft.*
Pumping water level 65 ft.*
at 6 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by Bailer
for 2 hours.
Power Electric Pump ½ 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 John Farrell

Driller's Address Corbin Mont

LICENSE NO. 14

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	18	Yellow Clay
18	20	Blue Clay
20	43	Dark Chocolate Aro
43	46	Red Clay
46	65	Yellow Clay Gravel
65	67	Gravel & Water

67 Show exact depth of bottom

48185

2092 299851

I received and filed this instrument for record on the 26th day of Feb. 1971 at 9:00 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

Vernonce R. Cronase, County Recorder

By M. M. Conaughey Deputy

Fee $2.00 Paid Cash

JW 3

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

23

File No.....

T. 15N R. 20W

DUPLICATE

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

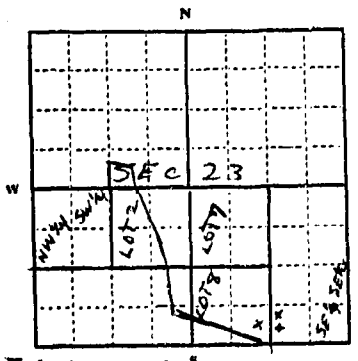
Date of Appropriation of Groundwater 1947

HARRY M + DOROTHEA J. Owner JOHNSON Address ROUTE 2 MISSOULA

Contractor (if any) NONE

Address of Contractor NONE

Date Started 1947 Date Completed 1947



LOTS 7 + 8 & 2 "
AND SE ¼ SE ¼ Sec. 23 T. 15N R. 20W
AND NW ¼ SW ¼ SW ¼ 23 15N 20W

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

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. THREE FLOWING SPRINGS ONE WITH CONCRETE BOX APP. 30" X 30" X 30" IN GROUND ONE WITH CONCRETE CULVERT PIPE PARTIALLY INGROUND ONE OPEN SPRING - ALSO SOME OTHER OPEN SPRINGS WHICH SUBIRRIGATE PROVIDE STOCK WATER

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. APPROXIMATE 100 GAL PER HOUR FROM THREE SPRINGS ESTIMATED TIME FOR FILLING STOCK TANKS USE IS CONTINUOUS

Signature of Owner Harry M Johnson
Dorothea J. Johnson

Date 12-31-63

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

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

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

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

20365

1246

Copy

I received and filed this instrument for record on the 3rd day of Dec., 1963 at 2:50 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:

County Recorder

By Martin L. Dahne Deputy

Fee $2.00 Paid

GW 2

STATE WATER CONSERVATION BOARD

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

File No. .....

AUG 12 1966

T 15N R 20 24

DUPLICATE

Bile ..... McDermott .....
Bl... ..... Mar... .....
Co... ..... Mon... .....
Dem... ..... Sullivan .....
Dickert .....

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

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

0'
34' Clay & Gravel
34'
42' Water & Gravel

42'

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Darlene J ~~Henry Kramer Jr~~ Address Evaro Mont

Driller John Farrell Address Arlee Mont

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

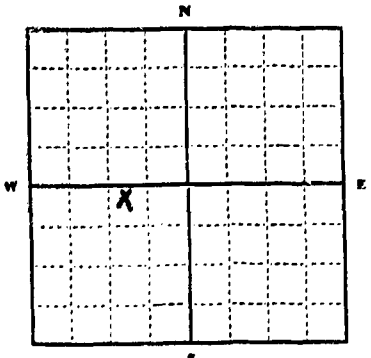
Date well started July 14 1966 Date Completed July 15 1966

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	(6" (18.97#)	0	42'			



NW¼ SW Sec. 24 T. 15 R. 20

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

Show exact depth of bottom.

Static Water Level for non-flowing Well 20 feet.

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

Pumping Water Level 25 feet at 20 gal. per minute.

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

How Tested Bailer Length of Test 1 Hour

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

14
Driller's License Number

John Farrell
Driller's Signature

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

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

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

41304

1636 252827

I received and filed this instrument for record on the 6 day of Aug. 1966 at 11:00 o'clock a.m., permanent files of Missoula County, State of Montana

Witness my hand:

Vergenae R. Crouse County Recorder

By Elsie J. Mann Deputy

Fee $ 2.00 Paid

3 GW 2 Revised 1969
13—3M—10/69

County ~~Lake~~ Mon. 25

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA WATER RESOURCES BOARD
RECEIVED
FEB 3 - 1971

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 Nels Jensen

Address Rte #2 Evaro

Missoula Montana

Date well started Oct 1, 1970

completed Oct 15, 1970

For Administrator's Use
File 299031
January 28, 1971
3:04 p.m.
GW 1

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

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

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

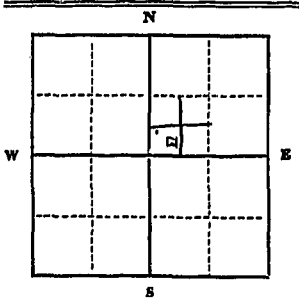
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL 73,000 Gallons

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6	17# 6"	2' above Ground level	382	None		



SW ¼ NE ¼ Sec. 25
T. 15 N/S R. 20 E/W

Static water level 70' ft.*
Pumping water level 370 ft.*
at 2 gallons per minute,
measured 180 minutes after pumping began.
*Measured from ground level.
Well developed by Bailer
for 6 hours.
Power Elect Pump 2 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) Electric Welded Joints
389' 4" TOTAL CASING

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

Driller's Signature Donald G. Beebe

Driller's Address P.O. Box 1454

Polson Mont. LICENSE NO. 163

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	49	Clay & Gravel
49	50	Gravel and Water (1 GPM)
50	70	Clay and Gravel
70	86	Clay balls and Gravel
86	86	Seep of water
~~86~~	~~381~~	~~Clay and Gravel~~
~~381~~	~~384~~	~~Gravel and Water~~

382 4 Show exact depth of bottom

48092

2063

299031

I received and filed this Instrument for record on the 28th day of Jan 19 71 at 2:45 o'clock P. M. permanent files of Missoula County, State of Montana

Witness my hand.

Veramae R. Crouse, County Recorder

By Diane Stone Deputy

Fee $ 2.00 Paid

JW 3

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

26

File No.

T. 15 N R. 20

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater August 10, 1968

Owner Claude H. & Doreane E. Lackner Address RR#2, Missoula, Mont.

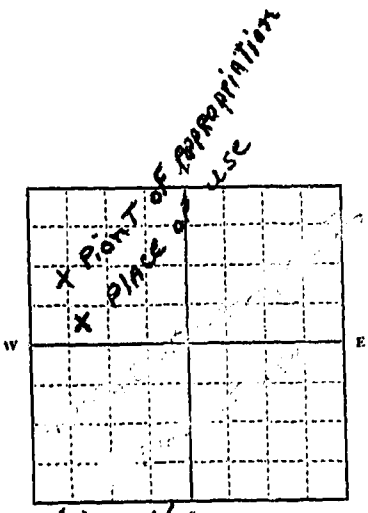
Contractor (if any) none

Address of Contractor

Date Started August 8, 1968 Date Completed August 10, 1968

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Dug into a ~~[illegible]~~ surface spring to the depth of about four feet & inserted tile pipe & from there ran plastic 1" pipe to dwelling.

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. Quantity of water, 3 gal. per minute, have continuous flow from 1" pipe, timed water as it filled gal. containers.



W½ of W½ 1/4 Sec. 26 T. 15 N. R. 20 W.

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

Doc. No. 2428, 328337
Filed for record this 23 day of February A. D. 1973 at 1:30 o'clock P.M.

Signature of Owner Claude H. Lackner, Doreane E. Lackner

Date Feb 21, 1973

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.

52,524

2422 328337

I received and filed this Instrument for record on the 23rd day of Feb. 1973 at 1:30 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:

Dorothy L. Head, County Recorder

By Linda J. Johnson, Deputy

Fee $2.00 ea. Paid

3 GW 2 Revised 1969
13—3M—10/69

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

RECEIVED
SEP 7 1971

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 C. C. Cuningham

Address Evaro Mont

Date well started Aug 9 1971

completed Aug 11 1971

For Administrator's Use
File 307172 September 2, 1971 4:30 Pm
GW 1

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

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

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

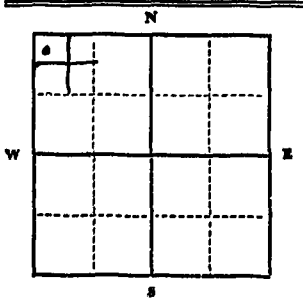
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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") 17#	0	70			



N.W. ¼ N.W. ¼ Sec. 26
T. 15 N R. 20 W

Static water level 15 ft.*
Pumping water level 68 ft.*
at 8 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by dump
for 6 hours.
Power air compr. ½ 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 John Farrell

Driller's Address Evaro Mont

LICENSE NO. 14

DRILLER'S LOG

26

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	22	Red Clay gravel
22	23	little water
23	63	brown clay
63	70	broken rock & water

70 Show exact depth of bottom

49008

307172 2180

I received and filed this instrument for record on the 20th day of Sept. 19 71 at 4:30 o'clock P. M. permanent files of Missoula County, State of Montana

Witness my hand

Vernon R. Cronin, County Recorder

By Marie Huckell, Deputy

Fee $2.00 Cash Paid

GW 2

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

File No.....

T. 15N R. 20W 26

DUPLICATE

MONTANA WATER RESOURCES BOARD
LOG RECEIVED
MAR 22 1968

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.....)

0 to 8'
clay and gravel

-8-to 17-
Gray Clay &Gravel
17
17 to 33'
Sandy Tan Clay

33 to 34
Gravel and Water

Show exact depth of bottom.

Owner: Carl Erlandson Jr. Address: Evaro, Mont.

Driller: Beebe Drilling Address: Polson, Mont.

Date of Notice of appropriation of groundwater: June 21, 1967

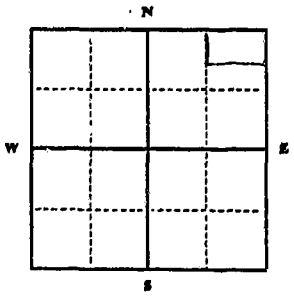
Date well started: June 20 Date completed: June 21, 1967

Type of well: 33 to 34 (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.			none	none	none



Static Water Level for non-flowing well 2' feet.

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

Pumping Water Level 2' feet at 12 gal. per minute.

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

How Tested: Bailed

Length of Test: 2hrs.

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

NW NW 1/4 Sec. 26 T 15N R 20W

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

(Continue on reverse side)

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

Domestic

163

Driller's License Number

Donald G. Beebe

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.

44,001

#1782

269472

I received and filed this instrument for record on the 20 day of May 19 67 at 11:55 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:

Vernon R. Clouse, County Recorder

By Jane Bennett, Deputy

Fee 3.00 Paid

GW 2

File No.....

DUPLICATE

T. 15 N R. 20 W

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

SWL- Flowing
Top of Ground
(Elev. above sea level 3956')

0-6 Topsoil
6-24 Gravel & Cobblestones imbedded in tan clay
24-37 Lavender Clay. Sandy. Small seeps of water
37-40 Yellow clay with a few scattered gravels imbedded
40-52 Orange Clay with some gravel imbedded
52-79 Tan clay with gravel & sand seams imbedded
79-87 Orange clay with gravel & sand seams
87-122 Tan clay with some gravel imbedded
122-154 Tan clay
154-170 Orange clay with some gravel
170-198 Gray clay
198-246 Broken Purple-gray Rock with gray clay in cracks
246-272½ Solid purple-gray Rock
272½-275 Broken Purple-gray Rock Water
275-277 Solid Purple-gray Rock

Bottom 277'

Owner Fred Erlandson Address Route #2 Missoula, Montana
Driller Liberty Drilling Co. Address Box 830 Msla, Mont.
Date of Notice of Appropriation of Groundwater None
Date well started Oct. 12, 1961 Date Completed Feb. 5, 1962
Type of well Drilled (dug, driven, bored or drilled) Equipment Used Cable tools (Churn, drill, rotary or other)

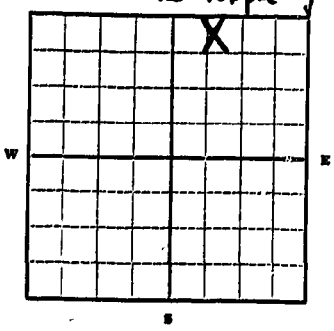
Water Use: Domestic ☑ Municipal ☐ Stock ☑ Irrigation ☑
Industrial ☐ Drainage ☐ Other ☐

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	Perforations From (Feet)	Perforations To (Feet)
7"	7" OD x 24#	+1½	201'7"			
	5½" OD x 17#	190½'	277'	Torch 2"x1/4	272	277

Static Water Level for non-flowing Well Flowing feet.
Shut-in Pressure for Flowing Well 6 #
Pumping Water Level 275' feet at 3½ gal. per minute.
Discharge in gal, per min. of flowing well SEEP ABOUT 4 GPM
How Tested Bailed Length of Test 3 days

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)
All water coming up inside of casing - capped 2-5-62. Allowed to run through 1/4" pipe to prevent freezing



NW ¼ NE Sec. 26 T 15 R 20
Indicate location of well and place of use, if possible. Each small square represents 10 acres.
Lot 2 Evard Townsite

Show exact depth of bottom.
Bottom 277 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 School of Mines and Quadruplicate for the Appropriator.

2331.

160

198972

I received and filed this instrument for record on the 26 day of Oct 1987 at 11:20 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN E. BEHNER, County Recorder

By Elaine J. Marini Deputy

Fee $ 2.00 Paid

GW 3

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

26

File No.

T. 15 N R. 22 W

DUPLICATE

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 June 29, 1970

Owner Edward R. Gallagher Address Box 907 Missoula Montana

Contractor (if any) none

Address of Contractor

Date Started June 15 1970 Date Completed June 29, 1970

1) Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.)

development of spring

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

gravity

3) Depth of water table

4) Use of the water domestic use

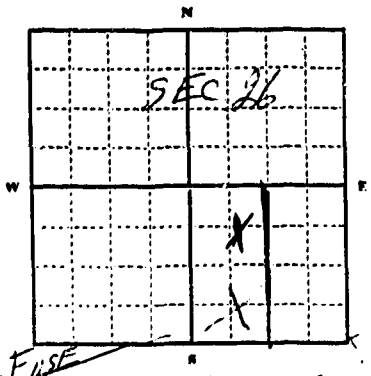
5) Amount of groundwater claimed (in miner's inches, or gallons per minute) ~~to~~ two miner inches or all of natural flow of spring

6) If used for irrigation, give number of acres and description of land for irrigation of 10 acres of meadow land

7) Estimate amount of water used each year all of natural flow of spring

Signature of Owner Edward R. Gallagher

Date July 30, 1970



Point of use SE ¼ Sec. 26 T 15 N R 22 W
W ½

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

Doc. No. 293455
Filed for record
this 30 day of July
A. D. 19 70, at 9:05
o'clock A M.

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.

2018 293455

Received and filed this instrument for record on the 30th day of July 1970 at 3:05 o'clock P.M. in permanent files of Missoula County, State of Montana

Witness my hand.

Vernon R. Crouse, County Recorder

By M. M. McCaughey Deputy

Fee $2.00 Paid

Helena Independent Record

26

File No.....

T. 15N R. 20W

DUPLICATE

County Missoula

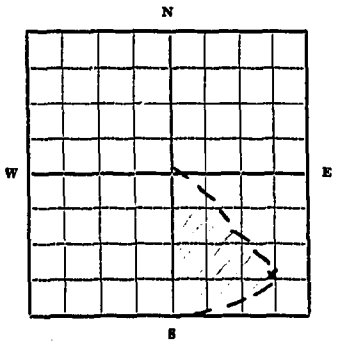
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
AUG 8 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Robert C. Hayes (Name of Appropriator), of Rt. 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:



NE ¼ Sec 26 T. 15N 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 Stock use and sub irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Approx 1910 and continuous since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Six 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 20 acres in ~~[illegible]~~ SE NE Sec 26 T15N R20W MPM

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

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

8. The depth of water table Approx 40-60 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 applicable

10. The estimated amount of groundwater withdrawn each year Not applicable

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

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

Signature of Owner Robert C Hayes

Date Aug. 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.

5306

#236 copy 209252

I received and filed this instrument for record on the 5 day of Aug 1963 at 1:05 o'clock P M., pen and nent files of Missoula County, State of Montana

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

Helena Independent Record

26

File No.....

T. 15 R. 20

DUPLICATE

County Missoula

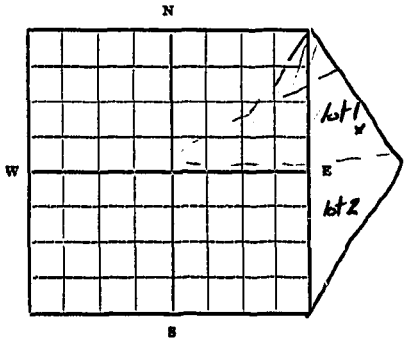
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
AUG 8 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Robert C. Hayes (Name of Appropriator), of Rt. 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:



NE¼ Sec. 26 T. 15 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 and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1930 not used since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 50 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 Never used but anticipate using now to irrigate 15 acres in lot 1 sec 25 and NE¼ sec 26 same owner

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Well drilled in 1930's exact date unknown

8. The depth of water table Approx 40-60 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 146' well with 6" casing

10. The estimated amount of groundwater withdrawn each year 800,000 gallons

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record This well was drilled in the 1930's but never used due to lack of electric power which has been recently installed.

Signature of Owner Robert C Hayes

Date Aug. 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.

5304.

copy

209249

#234

I received and filed this instrument for record on the 5 day of Aug. 1963 at 12:50 o'clock P. M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. BEHNER, County Recorder

By Darlene Rippe Deputy

Fee $ 2.00 Paid

G —Helena Independent Record

26

File No.....

T. 15 R. 20

DUPLICATE

County Missoula

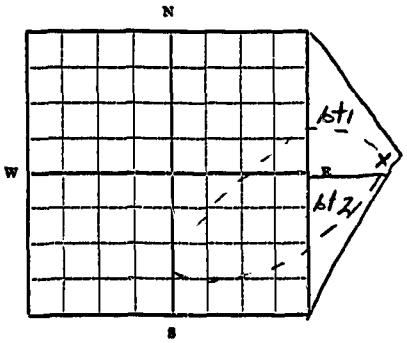
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
AUG 8 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Robert C. Hayes (Name of Appropriator), of Rt. 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:



NE ¼ Sec 26 T 15 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 stock use and irrigation and sub irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1910 and continuous since then.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 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 lot 1 & 2 Sec 25 and SE NE Sec 26 T15N R20W MPM approx 20 acres

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

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

8. The depth of water table Approx 10-60 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 Applicable

10. The estimated amount of groundwater withdrawn each year Not Applicable

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

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

Signature of Owner Robert C. Hayes

Date Aug. 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.

5305.

#235 copy 209251

I received and filed this instrument for record on the 5 day of Aug 1963 at 1:00 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. DEHNER, County Recorder
By Darlene Kepper Deputy
Fee $ 2.00 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana 1933

RECEIVED JAN 11 1965 STATE ENGINEER

File No.....

DUPLICATE

T. 15 N R. 20 W

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED JAN 1965 STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

0'	
9'	Clay
9'	
11'	Clay Gravel
11'	
35'	Clay
35'	
36'	Gravel Water

Owner Walter Johns Address Route 2 Evaro Hill

Driller John Farrell Address Arlee Mont

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

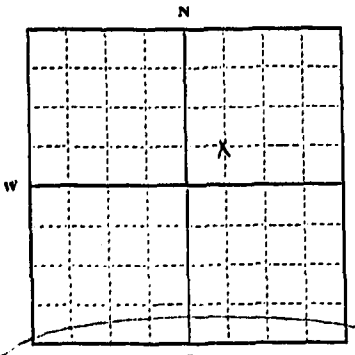
Date well started Nov. 23 1964 Date Completed Nov. 24 1964

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" (18.97)#	0'	36'			



SW¼ NE Sec. 26 T. 15 R. 20

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

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

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

Pumping Water Level 32' feet at 6 gal. per minute.

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

How Tested Pump Length of Test 1 Hour

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

36 Show exact depth of bottom.

14
Driller's License Number

John Farrell
Driller's Signature

Location?

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.

38821

1467

231056

I received and filed this Instrument for record on the 31 day of Dec 1969 at 10:45 o'clock A M., permanent files of Missoula County, State of Montana

Witness my hand:

Veronica R. Krause, County Recorder

By Ann Beckwith, Deputy

Fee 2.00 Paid

STATE ENGINEER

DEPARTMENT OF

STATE ENGINEER

DEPARTMENT OF

643

JW 3

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

26

File No.....

DUPLICATE

Section No 11

RECEIVED
FEB 14 1964
STATE ENGINEER

T. 15 N. R. 20 W

County Missoula

RECEIVED
DEC 30 1963
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater April 13, 1954

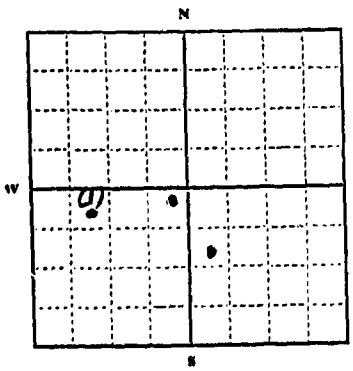
Owner Clyde F. Pearson and Frankie L. Pearson Address Florence, Montana

Contractor (if any) inapplicable

Address of Contractor inapplicable

Date Started April 13, 1954 Date Completed inapplicable

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Surface, spring water at 3 points indicated (domestic household use, garden, stockwater, sub irrigation of approximately 20 acres)



.....¼..... Sec. 26 T. 15 R. 20

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 Three springs, 210 gallons per minute, broken down to 26 gallons per minute all uses except sub irrigation. Sub irrigation to 204 acres based on 1 miner's inch per acre. No. 1 (domestic use spring)

Signature of Owner Clyde F. Pearson

Date December 27, 1963

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

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

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

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

15245

643 215004

I received and filed this instrument for record on the 27 day of Dec 1965 at 2:14 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN S. BENNER, County Recorder

By Martin S. Benner Deputy

Fee $ 2.00

GW 1

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

27

File No.

T. 15 R. 20

DUPLICATE

RECEIVED

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

No. 302088

Filed for record this 30 day of Apr. A. D. 19 71, at 10:30 o'clock A M.

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

1. I, Arthur A. Davis & Gale E. Davis of Route 2 Evaro
(Name of Appropriator) (Address) (Town)
County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is only for a supply of of water for use in a home.
(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed unknown (not applicable)

4. The annual period (inclusive dates) of intended use all year around

5. The probable or intended date of first beneficial use June 8, 1971

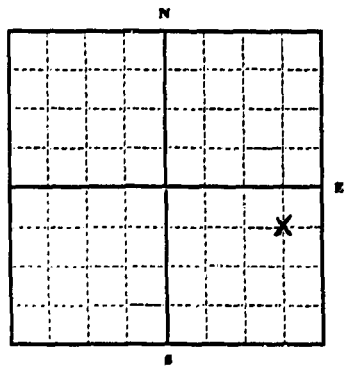
6. The probable or intended date of commencement and completion of the well* or wells* no well will be put in. A natural spring will be the source of water.

7. The location, type, size and depth of well or wells contemplated The spring will be dug down to have the depth of eight (8) ft.

8. The probable or estimated depth of the water table or artesian aquifier unknown (not applicable)

9. Name, address and license number of the driller engaged none (not applicable)

10. Give such other similar information as may be useful in carrying out the policy of this act. This spring is almost located in the center of the described piece of property. This is where it comes out of the ground.



NE¼ of SE¼ Sec. 27 T. 15N R. 20W
Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Arthur A. Davis, Gale E. Davis

Date April 28, 1971

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

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

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

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

48430

i 2123

302088

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

Witness my hand

Vernance R. Crouse, County Recorder

By Mary Shalsky Deputy

Fee $ 3.00 Cash Paid

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

21

File No. ..... T. 15 R. 20

TRIPLICATE County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Doc. No. 309594
Filed for record this 12 day of November A. D. 19 76, at 3:00 o'clock P M.

Date of Appropriation of Groundwater March 12, 1971

Owner Arthur A. Davis Address Route 2 - Evaro Missoula, Mt.

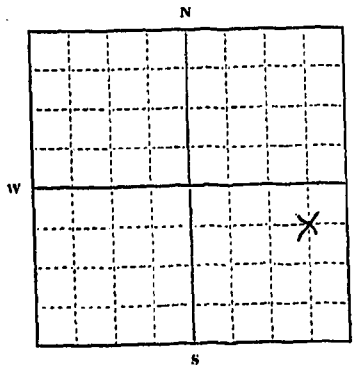
Contractor (if any) not applicable

Address of Contractor not applicable

Date Started natural existance ~~Date Completed~~

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable This natural spring will be dug out so as to have a depth of eight (8) feet. This way we will have a sufficient water storage supply.

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



NE ¼ SE ¼ Sec. 22 T. 15 R. 20

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

Signature of Owner Gale E. Davis

Date April 28, 1971

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.

49423

#2199

309594

I received and filed the [illegible] for record on the 12 day of Nov 71
at 3:00 o'clock P [illegible]
of Missoula County [illegible]
Witness my hand
Vernnice B. Fleck, County [illegible]
By [illegible] Deputy
Fee $2.00 paid

T. 15 N R. 20 W 27

County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
AUG 7 1961
STATE ENGINEER

WATER WELL LOG

			X

Owner: Carl Willig Address: Box 807

Driller: John Farrell Address: Arlee Mont

Date Started: July 17 - 1961 Date Completed: Aug 1 1961

Location: Sec. 27 T. 15 N R. 20 W ¼ sec. S E

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

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

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 39 ft. Type 13 LB steel Size 5"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 39 to ft. 46 Ft. to ft.

Type of screen or perforations 4" pipe 1/8 slots cutting torch

Static Water level, for non-flowing well: 11 feet.

Shut-in pressure, for flowing well: lb./sq. in. on: Aug 1 - 1961 (date)

Pumping water level 40 feet at 8 gal. per min.

How tested: Bailer

Length of test 2 hrs

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

4" perforated liner 4'

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	26	Loose Shale Rock
26	46	Hard Shale Rock
		Water Vein 39' to 46'

I received and filed this instrument for record on the 3rd day of April 1961 at 3:00 o'clock P.M. and duly filed of Missoula County, State of Montana
Witness my hand
MARTIN S. LEHNER, County Recorder
By [illegible] Deputy
Fee $ [illegible] Paid

79

184107

GW. 2

Approved Stock Form—State Publishing Co., Helena, Montana—1933

File No.....

T. 15 N R. 20 W 27

DUPLICATE

County Missoula

RECEIVED

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

NOV 1964

STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

0
2' Top Soil
2'
35' Shale Rock Clay
39' Shale Rock Water
39'

Owner Carl Willig Address Evaro Mont

Driller John Farrell Address Arlee Mont

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

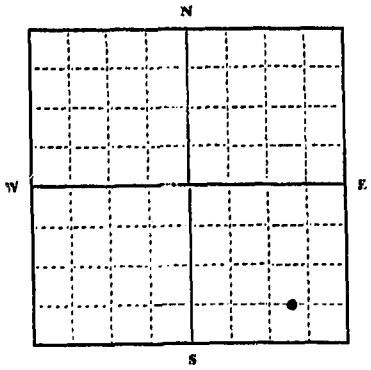
Date well started Aug 18 1964 Date Completed Aug 19 1964

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

Water Use: Domestic ☐ Municipal ☐ Other ☐ Irrigation ☐ Motel 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)
5"	5" 14 1/2#	0	39'			



SE 1/4 Sec 27 T. 15 R. 20

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

Static Water Level for non-flowing Well 4 feet.

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

Pumping Water Level 15 feet at 17 gal. per minute.

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

How Tested Pump Length of Test 2 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).....

Show exact depth of bottom.

39'

14
Driller's License Number

John Farrell
Driller's Signature

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

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

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

38624

158

228435

I received and filed this Instrument for record on the 28 day of Oct. 1962 at 1:45 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:

Veramae R. Clouse, County Recorder

By L. Billings, Deputy

Fee $ 2.00 Paid

GW 3

File No.....

DUPLICATE

T. 15 N R. 20 W 34

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater May 1957

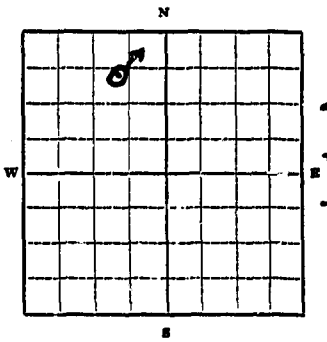
Owner Sam F. Thompson Address 242 So. 4th St. W. Missoula, Mont.

Contractor (if any) None —

Address of Contractor —

Date Started May 1957 Date Completed May 1957

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Springs, sub-irrigation and natural flow — From ground surface to several feet below surface.



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 40 miner's inches — Used for domestic, human and animal use — Estimated amount at one c.f.s. — Continuous use with few interruptions.

NE¼ NW¼ Sec. 34 T. 15 N R. 20 W

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

Signature of Owner Dave F. Thompson

Date December 31, 1963

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

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

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

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

20096

910 r. 215444

I received and filed this instrument for record on the 31 day of Dec 1963 at 1:44 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand

MARTIN S. BRAVER County Recorder

By Marta S. Bela Deputy

Fee $ 2.00 Paid

GROUNDWATER INDEX

Page ___ of ___

County Missoula Twp. 15N Rge. 19W

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
7	Teffler, Don	GW3	214990	
18	Gallagher, Edward	GW3	215051	
27	Northern Pacific	GW1	1312	Filed GWIS NAGW-25
33	Northern Pacific	GW4	215569	
34	Northern Pacific	GW4	1308	
19	Longpre, William	GW 2	322340	

A B C D

GW 3

File No.....

T. 15 R. 19 W

7

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1960

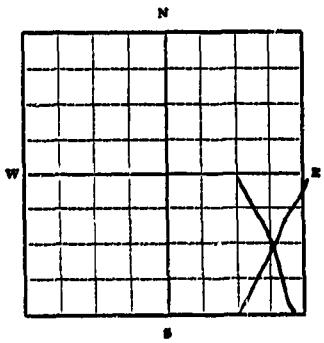
Owner Don Keffler Address Arlee

Contractor (if any) NONE

Address of Contractor NONE

Date Started 1960 Date Completed 1960

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. The water is piped down from an underground spring that is located on our property



E ½ ¼ SE Sec. 7 T. 15 R. 19

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 used only for house in winter and for sprinkling lawn in summer when necessary. The surplus runs down the hill.

Signature of Owner Mrs. Rudolph Anderson

Date Dec. 27, 1963

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

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

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

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

15232

630 214990

Copy

I received and filed the instrument for record on the 27 day of Dec 1963 at 1:20 o'clock P M., permanent files of Missoula County, State of Montana

Witness my hand:

MARTIN E. BRINER, County Recorder

By [illegible] Deputy

Fee $ 2.00 Paid

GW 3

18

File No.....

T 15 N R 19 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Sept. 5, 1963

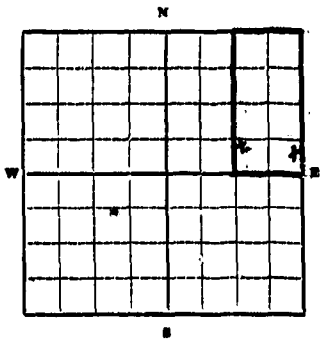
Owner Edward R. Gallagher Address Missoula Mont.
Sharon E. Gallagher

Contractor (if any) .....

Address of Contractor .....

Date Started Sept. 1, 1963 Date Completed Sept. 5, 1963

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



S½ NE¼ Sec. 18 T 15 R 19

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

Approximately 150 miners inches - water flowed to the full capacity of a two inch pipe continuously.

Signature of Owner Edward R. Gallagher
Sharon E. Gallagher (wife)

Date Dec. 1, 1963

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

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

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

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

19903