569

125227

STATE OF MONTANA
County of Co[illegible]

Filed in t[illegible] the County Clerk and Recorder of G[illegible] County, State of Montana, this 31 day of Decem

A. D. 1963 at 9:07 o'clock A M.

Chas. E. Sanderson
County Clerk and Recorder

By Marian H. Jarvis
Deputy

Fee Paid $2.00

INDEXED [illegible]

FILED [illegible]

GW

Approved Stock Form—State Publishing Co., Helena, Montana—41338

24

File No.....

T. 13 N R. 41 E

DUPLICATE

County Garfield

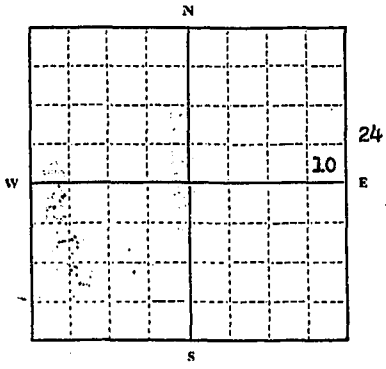
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Dyba Co., of Rock Springs
(Name of Appropriator) (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW ¼ SE Sec. 24 T. 13 R. 41

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
#10 stock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
#10 1935 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
#10 8 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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
#10 windmill

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
#10 1935

8. The depth of water table

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
#10 30 feet - 4" casing

10. The estimated amount of groundwater withdrawn each year #10 345,600 gallons

11. The log of formations encountered in the drilling of each well if 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 Dyba Co. by Paul Dyba

Date December 28, 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.

23339

425

125082

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 30 day of Dec.
A. D. 19 63 at 10:41 o'clock A M.

Clerk and Recorder
County Clerk and Recorder

By Marcia [illegible]
Deputy

Fee Paid $ 2.00

Indexed
Filmed

GW

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

File No.....

T. 13 N R. 41 E

DUPLICATE

County Garfield

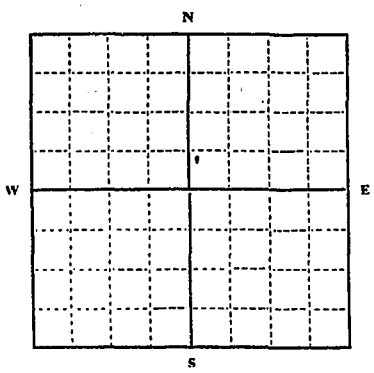
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED JAN 6 1964 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Dennis Youngberg (Name of Appropriator), of Rock Springs (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 28 T. 13 R. 41

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 is water livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. This well was drilled around 1920 and has been in continuous use.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 2 1/4 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
NA

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. This well has a tin casing with 1 1/4 in. pipe and is powered by a windmill

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1920

8. The depth of water table 90 ft

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
90 feet windmill

10. The estimated amount of groundwater withdrawn each year 425,000 Gals.

11. The log of formations encountered in the drilling of each well if 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 Dennis Youngberg
Date Dec. 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.

23483

568

125226

STATE OF MONTANA
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 31 day of Dec

A. D. 1963 at 9:06 o'clock A M.

Charles E. Vaughn
County Clerk and Recorder

By Maureen R. Pierce
Deputy

Fee Paid $ 2.00

INDEXED

GROUNDWATER INDEX

County Garfield Twp. 13 N Rge. 42 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
4	Larson, Arthur	GW 4	124887	
2	Larson Artie	G.W. 2	130158	
2	Wemmer Gottlub	G.W. 4	124864	
3	Montana Highway Comm	GW 2	126857	
5	Larson Art	G.W. 2	126126	
6	Arthur Larson	G.W. 4	124891	
6	Larson Art	G.W. 2	132581	
8	Larson Artie	G.W. 2	130159	
9	Larson Arthur	G.W. 4	[illegible]	
10	Larson Arthur	G.W. 4	[illegible]	
12	Glancock C.G. & C.G. JR	G.W. 4	124[illegible]	
17	Beckel Rose	G.W. 2	126274	
20	Beckel Rose	G.W. 4	~~126257~~	
22	Beckel Rose	G.W. 4	125266	
29	Beckel Rose	G.W. 4	128492	
~~4~~	~~Larson, Arthur~~	~~G.W. 4~~	~~124887~~	
29	Beckel, Rose	GW 2	126275	

GW

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

File No.

T. 13 N R. 42 E

DUPLICATE

County Garfield

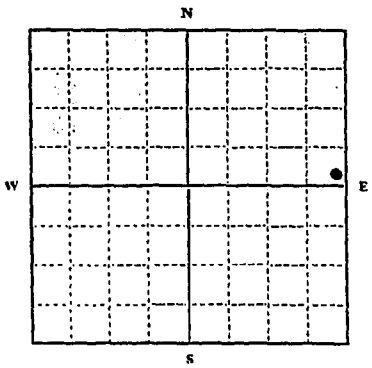
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Arthur Larson (Name of Appropriator), of Cohagen (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE¼ Sec. 4 T. 13 R. 42

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

2. The beneficial use on which the claim is based stockwater & house use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1962

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

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

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

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

8. The depth of water table 60'

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

300' deep 4" casing

10. The estimated amount of groundwater withdrawn each year whatever is needed

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 Arthur Larson

Date Dec 23, 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.

14726

272

124887

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 26 day of Dec.

A. D. 19 63 at 8:20 o'clock A M.

Chas. E. Vanderburg
County Clerk and Recorder

Marion R. James
Deputy

Fee Paid $ 2.00

INDEXED MJ

FILED CEV

GW 2

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

File No.....

STATE WATER CONSERVATION BOARD

JUN 14 1966

T. 13N R. 42E 2

County Garfield

DUPLICATE

LOG

Bille ... McDermott
Bulcroft ... McNulty
Cole ... Morton
Dahlman ... Sullivan
Dickett

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

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

1-30 clay
30-75 shale
75-85 sand
85-96 shale

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Artie Larson Address Hillside Mt.

Driller Merle + Kenneth Diane Address Jordan Mt

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

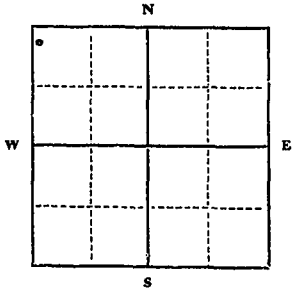
Date well started..... Date completed.....

Type of well drilled (Dug, driven, bored or drilled) Equipment used rotary (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"	4" 9½#	1	96	slot	65	96



NW¼NW Sec. 2 T. 13 R. 42

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 63 feet at 10 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).....

.....(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.

29
Driller's License Number

Kenneth Diane
Driller's Signature.

41135

816

130158

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 9th day of June A. D. 1966 at 4:55 o'clock P. M.

Charles E. Daugherty
County Clerk and Recorder

By ..... Deputy

Fee Paid $2.00

File No.....

DUPLICATE

SECTION No. 2

RECEIVED
FEB 11 1964
STATE ENGINEER

Approved Book Form—State Publishing Co., Helena, Montana—41338 ed. No. 3

T. 13 N. R. 42 E.

County Garfield

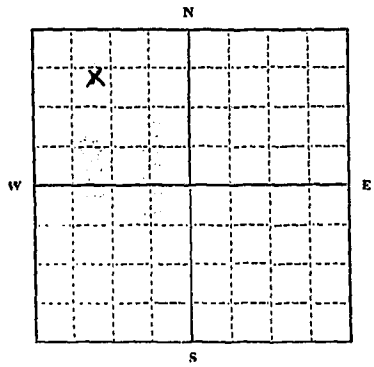
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Gottlieb Wenmer, of Rock Springs Box 3
(Name of Appropriator) (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



.....¼..... Sec. 2 T. 13 R. 42

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been drilled 1954

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1954

8. The depth of water table unknown

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
4" Casing
1¼" pipe
Prob. enough water for 25 cows

10. The estimated amount of groundwater withdrawn each year unknown

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

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

Signature of Owner Gottl. Wenmer

Date 12-23-63

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

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

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

14703

L. 249

124864

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 22 day of Dec.

A. D. 19 63 at 1:40 o'clock P M

[illegible]
County Clerk and Recorder

By Marion R. Jensen
Deputy

Fee Paid $ 2.00

INDEXED [illegible]

FILED [illegible]

GW 2 Well # 17

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

File No.....

T. 13 N R. 42 E 3

DUPLICATE

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED NOV 17 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 2808.6 ft.)

Brown clay silt gumbo.

21.6'

Brown fine sandy silt.

35.0'

Brown clay silt with traces of sand.

50.0'

Brown sandy silt.

57.0'

Fine grey to white washed sand.

60.6'

Bottomed hole in fine grey to white washed sand.

Owner Montana Highway Comm. Address Helena, Montana

Driller Montana Highway Comm. Address Helena, Montana

Date of Notice of Appropriation of Groundwater November 6, 1964

Date well started October 22, 1964 Date Completed October 27, 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 ☐

Maintenance House Water Supply

☞ 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" ID	6" ID steel 19.88 lbs. per foot.	0.0'	60.6'	None		

Static Water Level for non-flowing Well 39.3 feet.

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

Pumping Water Level 47.8 feet at 14 gal. per minute.

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

How Tested Bailed & Pumped Length of Test 2hrs. 15 min.

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 ANALYSIS: pH 7.8
Marble pH 8.7
CO_2 27 ppm
Phenolthalein Alkalinity none
Methyl Orange 398 ppm CO_2
Total Hardness 400 ppm $CaCO_3$

SW 1/4 of SW 1/4 of NW ¼ Sec. 3 T. 13 N R. 42 E

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

Show exact depth of bottom.

None Required
Driller's License Number

Driller's Signature Matls. Engr.

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.

38660

805

126357

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana this 12 day of NOV.

A. D. 19 64 at 10:20 o'clock A M

Elsie C. Gagnon

County Clerk and Recorder

By Marcia R. James

Deputy

Fee Paid $ 2.00

GW-2

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

File No.....

T. 13 N R. 42 E

DUPLICATE

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAY 13 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 2750)

1----15- clay
15----45- shale
45----47- rock
47----60- shale
60----62- coal
62----185-shale
185---210-coal & sand

Owner Art Larsen Address Hillside, Mont.

Driller Merle Drane Address Jordan, Mont.

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

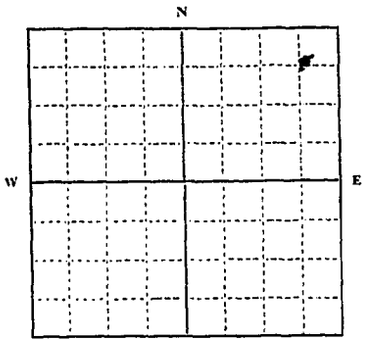
Date well started 4-29-64 Date Completed 4-30-64

Type of well drilled (dug, driven, bored or drilled) Equipment Used rotary (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)
6in.	4in. 9½lb.	1	210	slotted	120	210



NE¼NE Sec. 5 T. 13 R. 42
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 105 feet.

Shut-in Pressure for Flowing Well none

Pumping Water Level 187 feet at 3 gal. per minute.

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

How Tested pump Length of Test 8 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).....

29
Driller's License Number

Merle Drane
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.

38076

$ 3.50

795

126126

STATE OF MONTANA
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 8 day of May
A. D. 19 64 at 3:50 o'clock P M.

Charles E. Cauthen
County Clerk and Recorder

By Marian R. James
Deputy

Fee Paid $ 2.00

GW

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

File No.

T. 13 N R. 42 E

DUPLICATE

County Garfield

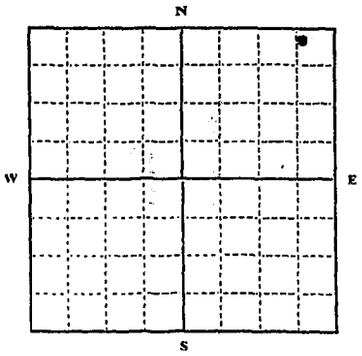
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Arthur Larson (Name of Appropriator), of Cohagen (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE ¼ Sec. 6 T. 17 R. 42

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

2. The beneficial use on which the claim is based stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1959

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1959

8. The depth of water table 90'

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

340' deep 4" casing

10. The estimated amount of groundwater withdrawn each year whatever is needed

11. The log of formations encountered in the drilling of each well if available 0-22 Brn sand; 22-30 sand; 30-50 gumbo; 50-85 shale; 85-87 rock, 87-150 shale; 150-160 coal; 160-175 sand; 175-200 shale 200-225 coal; 225-250 sandy shale; 250-260 coal; 262-340 fine sand

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

Signature of Owner Arthur Larson

Date Dec 23, 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.

14730

276

124891

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 26 day of Dec.

A. D. 19 63 at 8:40 o'clock A M.

[illegible]
County Clerk and Recorder

By [illegible]
Deputy

Fee Paid $ 2.00

INDEXED MJ

FILED [illegible]

GW 2

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

File No.....

DUPLICATE

MONTANA WATER RESOURCES BOAR.
RECEIVED
JUN 25 1968

T. 14 N R. 32 E 6

County Garfield

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

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

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Art Larson Address Colorado, Mont.

Driller Merle Dana Address Jordan, Mont.

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

Date well started.....Date completed.....

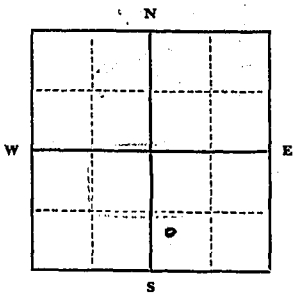
Type of well Dug (Dug, driven, bored or drilled) Equipment used Mf (Churn drill, rotary or other)

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.

1-20 clay
20-25 gravel
25-35 shale
35-59 rock
59-130 shale
130-133 coal
133-189 shale
189-194 rock
194-204 shale
204-207 coal
207-225 shale
225-227 coal
227-261 shale
261-337 sand + coal

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6 1/2	9 1/2#	1	250			
3 7/8						



S ~~W 1/4 SE~~ Sec. 6 T. ~~14~~ 13 R. ~~32~~ 42

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

Static Water Level for non-flowing well 160 feet.

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

Pumping Water Level 210 feet at 3 gal. per minute.

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

How Tested Pump

Length of Test 20 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.

29
Driller's License Number

Merle Dana
Driller's Signature.

44,258

830
132581

STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana this 24 day of June A. D. 19 68 at 9:00 o'clock A M

Charles E Pangburn
County Clerk and Recorder

By Delpha E Armstrong
Deputy

Fee Paid $ 2.00

GW 2

STATE WATER CONSERVATION BOARD

File No.....

JUN 14 1966

T. 13N R. 42E

DUPLICATE

County Garfield

LOG

Bills McDermott
Butzerin McNally
Cook Nerud
Dahlstrom Sullivan
Dickers

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 Artie Larson Address Hillside, Mont.

Driller Merle Kenneth Dane Address Roche, Mont.

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

Date well started.....Date completed.....

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

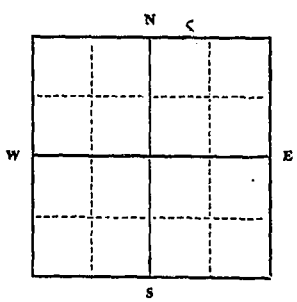
Water use: Domestic ☐ Municipal ☐ Stock ☑ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐

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.

1-15	clay
15-25	shale
25-30	coal
30-100	shale
100-105	coal
105-170	shale
170-220	sand
220-230	shale

Show exact depth of bottom.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	4" 9½#	1	207	4 in slot	160	207



SE¼NW Sec. 8 T. 13 R. 42

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

Static Water Level for non-flowing well 120 feet.

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

Pumping Water Level 150 feet at 3 gal. per minute.

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

How Tested pump

Length of Test 2 days

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.

29
Driller's License Number

Kenneth Dane
Driller's Signature.

41134

819

130159

STATE OF MONTANA }
County of Sheridan }

Filed in the office of the County Clerk and Recorder of Sheridan County, State of Montana, this 9th day of June A. D. 19 66 at 5:00 o'clock P. M.

Charles E. Vaughan
County Clerk and Recorder

By _____ Deputy

Fee Paid $ 2.00

GW

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

9

File No.....

T. 13 N R. 42 E

DUPLICATE

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

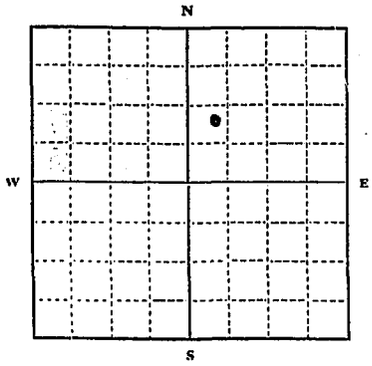
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Arthur Larson, of Cohagen
(Name of Appropriator) (Address) (Town)

County of Garfield State of Montana

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



NE ¼ Sec. 9 T. 13 R. 42

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

2. The beneficial use on which the claim is based stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1945

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1945

8. The depth of water table 50'

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

110' deep 4" casing

10. The estimated amount of groundwater withdrawn each year whatever is needed

11. The log of formations encountered in the drilling of each well if available 0-25 Brn sand; 25-37 clay 37-50 shale, -50-54 sand- 54-70 clay- 70-72' coal; 72-75 clay; 75-100 sand; 100-100 bumbo.

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 Arthur Larson

Date Dec 23, 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.

14729

275

124890

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 26 day of Dec.

A. D. 19 63 at 8:35 o'clock P M.

County Clerk and Recorder

By Marion L. James
Deputy

Fee Paid $ 2.00 INDEXED M.J.

FILED

GW

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

File No.....

T. 13 N R. 42 E

DUPLICATE

County Garfield

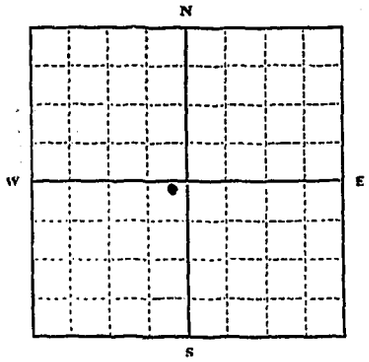
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Arthur Larson (Name of Appropriator), of Cohagen (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW ¼ Sec. 10 T. 13 R. 42

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

2. The beneficial use on which the claim is based stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1963

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1963

8. The depth of water table 20'

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
105' Deep 4" casing

10. The estimated amount of groundwater withdrawn each year whatever is needed

11. The log of formations encountered in the drilling of each well if available 0-18 sandy soil - 18-20 gravel; 20-75 shale; 75-95 sand stone; 95-105 shale

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 Arthur Larson

Date Dec 23, 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.

14728

274

124389

STATE OF MONTANA
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 26 day of Dec.

A. D. 19 63 at 8:30 o'clock A M.

Chas E Vaughn
County Clerk and Recorder

By Merriam L Jensen
Deputy

Fee Paid $ 2.00 INDEXED MJ

FILED CEJ

File No.....

T. 13 N. R. 42 E.

DUPLICATE

County.....Garfield

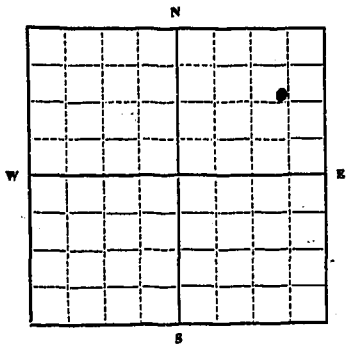
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 23 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1 C.G. Glasscock and C.G. Glasscock, Jr., of P. O. Box 419 Miles City,
(Name of Appropriator) (Address) (Town)
County of Custer State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE¼NE¼ Sec. 12 T13N R42E

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.....
watering livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Has been used continuously for more than fifteen years.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 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
No irrigation

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. More than fifteen years prior to making this declaration but exact date unknown.

8. The depth of water table Unknown

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
180 foot deep well with 4" casing.

10. The estimated amount of groundwater withdrawn each year Unknown, but pumps 5 gallons per minute.

11. The log of formations encountered in the drilling of each well if available
Appropriator knows of no log formations, as well was drilled before present owner purchased land.

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
No other information known.

Signature of Owner C.G. Glasscock
Signature of Owner C.G. Glasscock Jr.
Date Dec. 10, 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.

11472.

193

124761

124761

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 17 day of Dec A. D. 1963 at 11:30 o'clock A M.

Charles E. Faughburn
County Clerk and Recorder

Marian R. Jacobs
Deputy

Fee Paid $ 2.00

INDEXED
FILED

GW 2

File No.....

DUPLICATE

T. 13 N R. 47 E

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUN 29 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 UNK)

YELLOW LOAM
0-20
20-26 BROWN ROCK
26-90 BLUE SHALE
90-110 BLUE SANDSTONE SOME WATER
110-178 GRAY SHALE
178-205 GRAY SAND W/ WATER
205-218 SANDY SHALE

Owner MRS. ROSE BIERKEL Address ROCK SPRINGS, MONT.

Driller HENRY JOHNSON Address TERRY, MONT.

Date of Notice of Appropriation of Groundwater N/A

Date well started APR 6 64 Date Completed APR 8 64

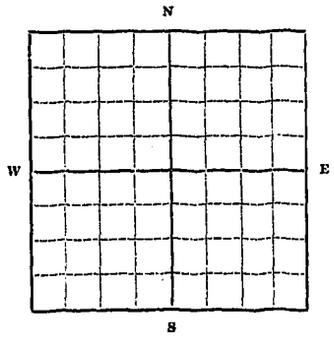
Type of well DRILLED (dug, driven, bored or drilled) Equipment Used ROTARY (Churn, drill, rotary or other)

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.

TOTAL DEPTH 218'

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
5 5/8	4" 10 9½ LB	0	218	Holes 3/8"	110	130
					186	216



SE ¼ Sec. 17 T. 13 R. 42

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

Static Water Level for non-flowing Well 110 feet.

Shut-in Pressure for Flowing Well N/A

Pumping Water Level 160 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well N/A

How Tested BAILER Length of Test 2 HOURS

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

Show exact depth of bottom.

22
Driller's License Number

Henry Johnson
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.

38225

797

126274

STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 24 day of June A. D. 1964 at 3:35 o'clock P. M.

Chas. E. Pangburn
County Clerk and Recorder

By Maureen R. Jensen
Deputy

Fee Paid $

GW

Approved Stock Form—State Publishing Co., Helena, Montana—4223

File No.....

T. 13 N R. 42 E

DUPLICATE

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964
STATE ENGINEER

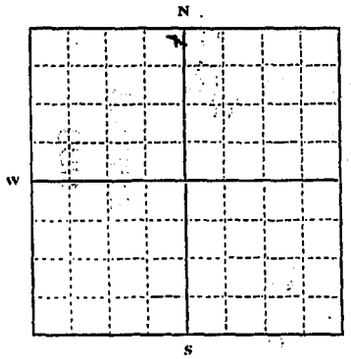
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Ross Bickel, of Rock Springs
(Name of Appropriator) (Address) (Town)

County of ..... State of Montana

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



NE NW
~~NW~~ 1/4 ~~SW~~ Sec. 20 T. 13 R. 42

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

2. The beneficial use on which the claim is based stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1949

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

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

none

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

Electric

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1949

8. The depth of water table 60

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 16 a Steel 4" casing

10. The estimated amount of groundwater withdrawn each year 200 a.w.a

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

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

Signature of Owner Ross Bickel

Date 12 31 - 63

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

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

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

23524

608

125267

STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 31 day of Dec A. D. 1963 at 9:47 o'clock A M.

Chas E Langhorne
County Clerk and Recorder

By Marion H Jones
Deputy

Fee Paid $ 2.00

INDEXED

FILED

GW

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

File No.....

T. 13 N R. 42 E

DUPLICATE

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964
STATE ENGINEER

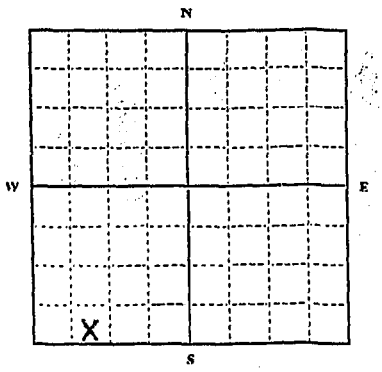
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Rose Bickel (Name of Appropriator), of Rock Springs (Address) (Town)

County of Garfield State of Montana

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



SW SW 1/4 Sec. 22 T. 13 R. 42

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

2. The beneficial use on which the claim is based Stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1949

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

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

None

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

Windmill + Electric Motor

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1949

8. The depth of water table 80'

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 170' Deep 4" Casing

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

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

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

Signature of Owner Rose Bickel

Date 12-31-63

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

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

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

23523

607

125266

STATE OF MONTANA
County of Cascade }

Filed in the office of the County Clerk and Recorder of Cascade County, State of Montana, this 31 day of Dec.

A. D. 19 63 at 9:46 o'clock A M.

Chas. E. Tangen
County Clerk and Recorder

By Marion R. Jane
Deputy

Fee Paid $ 2.00

INDEXED M

FILED

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4193-3

File No. .....

DUPLICATE

STATE WATER CONSERVATION BOARD
RECEIVED
AUG 16 1965

T. 13 N R. 42 E 29

County GARFIELD

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground REFERRED TO APPROX

(Elev. above sea level 2975)

0 - 42' yellow Loam
42 50 Dark Shale
50 80 Gray Shale
80 92 SANDY Shale
92 160 Blue Shale w/Coal
160 - 240 Shale gray
240 - 260 Sandy Shale
260 - 320 DARK Shale
320 - 340 Coal
340 - 485 LGRAY SHALE
485 - 500 GRAY SANDSTONE
500 - 510 COAL
510 - 640 DARK SHALE
640 - 660 SANDY SHALE
660 - 700 GRAY SHALE
700 - 730 SANDY SHALE
730 - 750 SAND STONE
750 - 890 SHALE
890 - 950 SHALE GRAY SANDSTONE
950 Bottom

Owner ROSE BICKEL Address ROCK SPRINGS, MONT

Driller HENRY JOHNSON Address TERRY, MONT

Date of Notice of Appropriation of Groundwater N/A

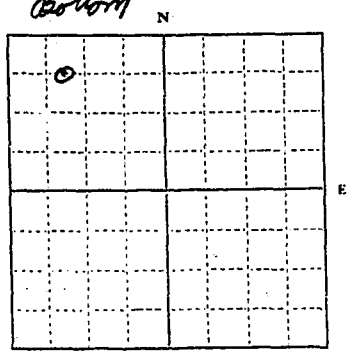
Date well started SEPT 1964 Date Completed JUNE 24 65

Type of well DRILLED (dug, driven, bored or drilled) Equipment Used ROTARY (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 1/8	4" ID 9.5#	0	710	Hole 3 1/8"	730	750
3 7/8	2" ID 3.75#	698	950	"	900	950



NW ¼ NW Sec. 29 T. 13 R. 42

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 320 feet.

Shut-in Pressure for Flowing Well N/A

Pumping Water Level 335 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well N/A

How Tested BAILER Length of Test 4 HRS

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

22
Driller's License Number

Henry T. Johnson
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.

39434

809

128192

128492

STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 11th day of August A. D. 19 65 at 4:45 o'clock P. M.

Charlotte Vaughn
County Clerk and Recorder

By _____
Deputy

Fee Paid $2.00

RECEIVED
AUG 11 1965
STATE HIGHWAY COMMISSION OF MONTANA

RIGHT OF WAY

GW 2

File No.....

DUPLICATE

T. 13 N R. 42 E

County Daniels

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUN 29 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.....)

0-60 YELLOW LOAM
60-90 BLUE SHALE
90-100 BLUE SAND
100-140 BLUE SHALE
140-160 GREEN SHALE
160-162 COAL
162-210 GRAY SHALE
210-250 GRAY SANDSTONE
250-260 GRAY SHALE

TOTA DEPTH
260 FT.

Owner MRS ROSE BIEHEL Address ROCK SPRINGS, MONT

Driller HENRY JOHNSON Address TERRY, MONT.

Date of Notice of Appropriation of Groundwater NA

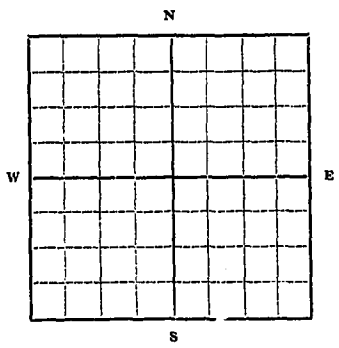
Date well started MAY 12 64 Date Completed MAY 21 '64

Type of well DRILLED (dug, driven, bored or drilled) Equipment Used ROTARY (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 5/8	4" 10 9.5LB	0	260	3/4 Holes	210	260



NW 1/4 Sec. 29 T. 13 R. 42

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

Static Water Level for non-flowing Well 160 feet.

Shut-in Pressure for Flowing Well NA

Pumping Water Level 180 feet at 7 gal. per minute.

Discharge in gal, per min. of flowing well NA

How Tested BAILER Length of Test 2 HOURS

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

Show exact depth of bottom.

22
Driller's License Number

Henry Johnson
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.

38225

198

126275

126275

STATE OF MONTANA
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 24 day of June A. D. 19 64 at 3:40 o'clock P. M.

Chas. E. [illegible]
County Clerk and Recorder

By Marcia D. [illegible]
Deputy

Fee Paid $

GROUNDWATER INDEX

County Garfield Twp. 13 N Rge. 43 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
8	Glasscock CG & CG JR	GW4	124763	
9	Glasscock CG + CG JR	GW4	124756	
14	Taylor Alvin JR & Carolyn	GW4	125224	
18	Larson Art	G.W2	126059	
18	Larson Arthur	G.W.4	124884	
21	Glasscock Bros	G.W2	135329	
21	Glasscock CG & CG JR	GW.4	124759	
21	Glasscock CG & CG JR	GW4	124760	
23	Haglof Ranch	G.W2	130604	
24	Haglof Axel	G.W.2	135569	
24	Haglof Axel (Record	G.W4	125096	
29	Glasscock Bros	G.W.2	135330	

File No.....

T. 13 N. R. 43 E.

DUPLICATE

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 23 1963
STATE ENGINEER

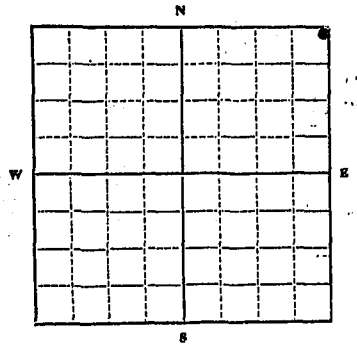
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1 C.G.Glasscock and C.G.Glasscock, Jr., of P. O. Box 419 Miles City
(Name of Appropriator) (Address) (Town)

County of Custer State of Montana

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



NE ¼ NE ¼ Sec. 8 T. 13 N R. 43 E

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 watering livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Has been used continuously for more than fifteen years.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 8 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 No irrigation.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater More than fifteen years prior to making this declaration but exact date unknown.

8. The depth of water table Unknown

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 180 foot deep well with 4" casing.

10. The estimated amount of groundwater withdrawn each year Unknown, but pumps 8 gallons per minute.

11. The log of formations encountered in the drilling of each well if available Appropriator knows of no log formations, as well was drilled before present owner purchased land.

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 No other information known.

Signature of Owner C.G.Glasscock
Signature of Owner C.G.Glasscock Jr.
Date Dec. 10, 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.

11474

195

124763

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 17 day of Dec

A. D. 1963 at 11:40 o'clock A M.

Charles E. Daughrue
County Clerk and Recorder

By Frances R. James
Deputy

Fee Paid $ 2.00

File No.....

T. 13 N. R. 43 E.

DUPLICATE

County Garfield

RECEIVED
DEC 23 1963
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

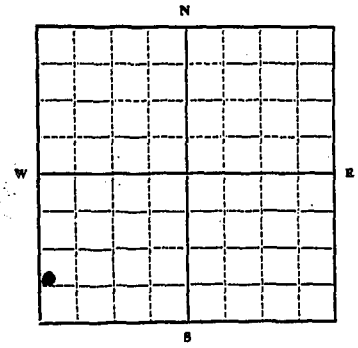
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1 C. G. Glasscock & C. G. Glasscock, Jr. of P. O. Box 419 Miles City,
(Name of Appropriator) (Address) (Town)

County of Custer State of Montana

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



SW¼SW¼ Sec. 9 T13N R43E

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 watering livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Has been used continuously since 1961.

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof No irrigation

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1961

8. The depth of water table Unknown

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 130 foot deep well with 4" casing

10. The estimated amount of groundwater withdrawn each year Unknown, but pumps 10 gallons per minute.

11. The log of formations encountered in the drilling of each well if available Appropriator knows of no log formations as no log was furnished by driller.

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 No other information known.

Signature of Owner C. G. Glasscock
Signature of Owner C. G. Glasscock Jr.
Date Dec. 16, 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.

11467

188

12175

STATE OF MONTANA }
County of Gallatin }

Filed in the office of the County Clerk and Recorder of said County, State of Montana this 17 day of [illegible] A. D. 1963 at 11:05 o'clock 2 M.

Charles E. Langhorn
County Clerk and Recorder

By Marian K. James
Deputy

Fee Paid $ 2.00

File No.....

T. 13 N R. 43 E 14

DUPLICATE

County.....

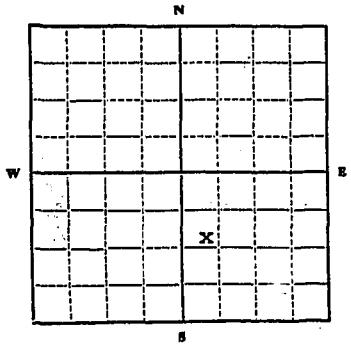
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Section 357, Montana Session Laws, 1961)

1. Alvin Taylor, Jr. and Carolyn Taylor, Rock Springs
(Name of Appropriator) (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW ¼ SE ¼ Sec. 14. T. 13. R. 43.

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 use and stock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been June 14, 1955

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater June 14, 1955

8. The depth of water table estimated at 100 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 180 feet

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

11. The log of formations encountered in the drilling of each well if available
160 ft. - washout
160-163 ft. - Blue Shale
163-164 ft. - coal
164-172 ft. - blue shale
172-176 ft. - Sandstone
176-180 ft. - gray shale

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 Alvin Taylor Jr. by Carolyn Taylor

Date Dec. 30, 1963

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

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

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

23481

566

125224

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 31 day of Dec

A. D. 19 63 at 9:04 o'clock A M.

Chas. E. Langness
County Clerk and Recorder

By Marian R. Jones
Deputy

Fee Paid $ 2.00

INDEXED

FILED

GW 2

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

File No.....

T. 13 N R. 43 E

DUPLICATE

County Garfield

RECEIVED

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

APR 22 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 3125)

~~[illegible] clay~~
~~[illegible]~~
~~[illegible]~~
1—20 clay
20—45 shale
45—48 coal
~~48—125 shale~~
~~125—128 rock~~
128—140 shale
140—164 sand

Owner Art Larson Address Hillside Montana

Driller Merle Drane Address Jordan Montana

Date of Notice of Appropriation of Groundwater 3-13-64

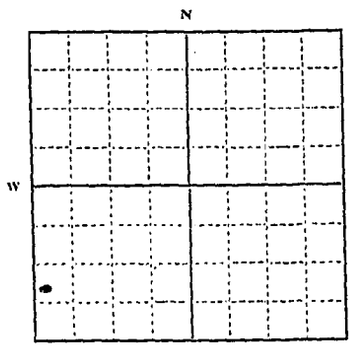
Date well started 3-13-64 Date Completed 3-15-64

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6 in,	4 in 9½ lb	1—164	—	3/2-1/4 slots		96—164



.....¼..... Sec. 18 T. 13 R. 43.
Indicate location of well and place of use, if possible. Each small square represents [illegible]

Show exact depth of bottom.

Static Water Level for non-flowing Well 65 ft feet.

Shut-in Pressure for Flowing Well none

Pumping Water Level 120 ft feet at 7 gallon gal. per minute.

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

How Tested pump Length of Test 10 hrs

Remarks: (Gravel packing, ~~cement~~, 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).....

Driller's License Number

Merle Drane
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.

35616

793

126059

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 20 day of April A. D. 19 64 at 1:20 o'clock P M.

Charles E. Langhus
County Clerk and Recorder

By Marion R. Langhus
Deputy

Fee Paid $ 2.00

GW

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

File No.

T. 13 N. R. 3 E.

DUPLICATE

County [redacted]field

STATE MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED DEC 1963

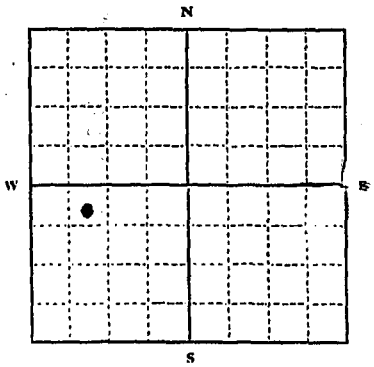
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Arthur Larson (Name of Appropriator), of Cohagen (Address) (Town)

County of [redacted] State of Montana

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



SW ¼ Sec 18 T. 13 R. 43

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

2. The beneficial use on which the claim is based Stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1959

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1959

8. The depth of water table 60'

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 150' deep " casing

10. The estimated amount of groundwater withdrawn each year whatever is needed

11. The log of formations encountered in the drilling of each well if available 0-25 Brn sand; 25-27 coal - 27-50 clay - 50-65 rock - 55-65 - sand rock; 65-72 sand; 72-92 gumbo; 92-94 rock; 94-130 gumbo; 130-150 fine sand

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

Signature of Owner Arthur Larson

Date Dec. 23, 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.

14727

273

124388

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 26 day, of Dec.

A. D. 19 63 at 8:25 o'clock A M.

County Clerk and Recorder

By Marian B. James Deputy

Fee Paid $2.00

INDEXED MJ

FILED Ck8

13N-43E

County GARFIELD

GW 2 Revised 1969
13—3M—10/69

MONTANA WATER RESOURCES BOARD
RECEIVED
JUN 25 1970

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner GLASSCOCK BROS.

Address MILES CITY MONT

Date well started 11-15-67

completed 11-20-67

For Administrator's Use
File June 25, 1970
2:00 p.m.
GW 1 135329

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

Equipment used ROTARY (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☑ Irrigation ☐

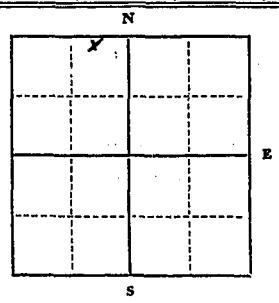
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
5 7/8"	4"	1	212			



Static water level 180 ft.*

Pumping water level 160 ft.*

at 7 gallons per minute, measured minutes after pumping began.

*Measured from ground level.

Well developed by

for hours.

Power ELECTRIC Pump 1/3 HP

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

NE ¼ NW ¼ Sec. 21

T. 13N (N) S R. 43 (E) W

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

Driller's Signature HIGGINS DRILLING CO.

Driller's Address MILES CITY 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)

From (Feet)	To (Feet)	
0	32	SHALE
32	85	BLUE CLAY
85	88	ROCK
88	160	CLAY
160	170	FINE SAND
170	174	ROCK
174	200	FINE SAND
200	210	CLAY

210 Show exact depth of bottom

46623

847
135229
Glasscock Bros.
To
Public, Inc
J. W. Well Appropriation

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 25th day of June A. D. 19 70 at 2:00 o'clock P. M.

Chas. E. Pangborn
County Clerk and Recorder

By _____ Deputy

Fee Paid $ 2.00

File No.....

T.13 N. R. 43 E.

21

DUPLICATE

County Garfield

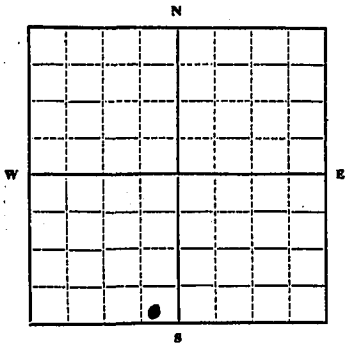
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 23 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. C.G.Glasscock and C.G.Glasscock,Jr., of P.O.Box 419, Miles City,
(Name of Appropriator) (Address) (Town)
County of Custer State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE ¼SW Sec. 21 T13N R43E

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
Used in dwelling

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Approximately 1958

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
No irrigation

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

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

8. The depth of water table Unknown

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
110 foot deep well with 4" casing

10. The estimated amount of groundwater withdrawn each year Unknown, but pumps 10 gallons per minute.

11. The log of formations encountered in the drilling of each well if available
Appropriator knows of no log formations as no log was furnished by driller.

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
No other information.

Signature of Owner C.G. Glasscock
Signature of Owner C.G. Glasscock
Date Dec 10, 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.

11470

191

124759

124759

OF MONTANA }

County Clerk and
Recorder of Gallatin County, State of Montana,
this 17 day of Dec
A. D. 1963 at 11:20 o'clock A M.

Charles E. Tangbuen
County Clerk and Recorder

By Marean R. Jones Deputy

Fee Paid $ 2.00

21

File No.....

T. 13 N. R. 43 E.

DUPLICATE

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 23 1963
STATE ENGINEER

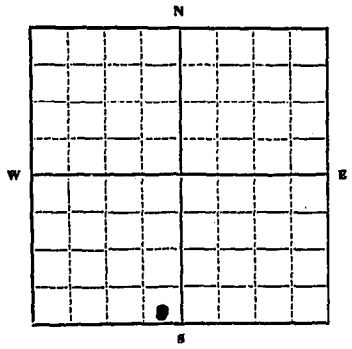
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1 C.G.Glasscock & C.G.Glasscock, Jr., of P. O. Box 419, Miles City,
(Name of Appropriator) (Address) (Town)

County of Custer State of Montana

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



SE ¼ SW ¼ Sec. 21 T 13N R 43E

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
watering livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Has been used continuously for more than fifteen years.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 8 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
No irrigation

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. More than fifteen years prior to making this declaration but exact date unknown.

8. The depth of water table Unknown

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
96 foot deep well with 4" casing

10. The estimated amount of groundwater withdrawn each year Unknown, but pumps 8 gallons per minute.

11. The log of formations encountered in the drilling of each well if available
Appropriator knows of no log formations, as well was drilled before present owner purchased land.

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
No other information known.

Signature of Owner C.G.Glasscock
Signature of Owner C.G.Glasscock Jr.
Date Dec. 10, 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.

11471

192

~~122760~~
124760

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, the 17 day of Dec. 1963 at 11:25 o'clock A. M.

Charles D. Bangham
County Clerk and Recorder

By Marion R. Jones
Deputy

Fee Paid $ 2.00

GW 2

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

23

File No.....

T. 13 R. 43

DUPLICATE

STATE WATER CONSERVATION BOARD

County Garfield

LOG

NOV 9 1966

Bill ..... McCormack .....
Bo ..... McRuby .....
Co ..... Mo ..... Sullivan .....
Dickert .....

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 2800)

1- 20 clay
20- 25 red shale
25- 95 shale
95- 180 sand
180- 190 shale

Owner Haglof Ranch Address Rock Springs Mont

Driller Merlin Kenneth Duane Address Jordan Mont

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

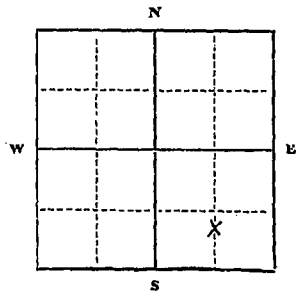
Date well started May 29 1966 Date completed June 1, 1966

Type of well drilled (Dug, driven, bored or drilled) Equipment used rotary (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	4" 9 1/2 #	1	190	SLOTS	95	180



Static Water Level for non-flowing well 70 feet.

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

Pumping Water Level 94 feet at 10 gal. per minute.

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

How Tested pump

Length of Test 12 hrs.

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

SE ¼ Sec 23 T 13 R 43

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

.....(Continue on reverse side)

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

Show exact depth of bottom.

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

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

29
Driller's License Number

Kenneth Duane
Driller's Signature

41,593

823

130604

OF MONTANA
County of Garfield

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana
this 7th day of March
A. D. 1966 at 8:15 o'clock A M.

Charles E. Daughen
County Clerk and Recorder

By ..... Deputy

Fee Paid 7.00

Indexed M
Filed

GW 2 Revised 1969
13—3M—10/69

MONTANA WATER RESOURCES BOARD
RECEIVED
SEP 30 1970

13N-43E
County Garfield 24

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 Axel Haglof

Address Rock Springs Montana

Date well started 8-26-43

completed 8-26-43

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

Equipment used 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). ~~140,000 Gal.~~

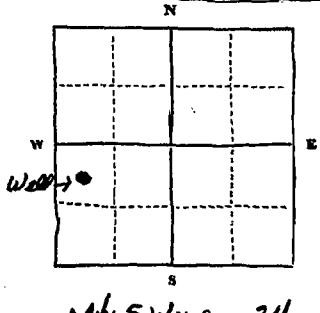
ESTIMATED ANNUAL WITHDRAWAL 140,000 Gal

For Administrator's Use

File 135569
September 28, 1970
8:45 A.M.

GW 1

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
5 5/8	4" 11# per ft.	0	190	slotted torch	130	185



NW¼ SW¼ Sec. 24
T. 13 (N/S) R. 43 (E/W)

Static water level 100 ft.*
Pumping water level 116 ft.*
at 5 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by bailing
for 1 hours
Power Electric Pump 1/2 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) Steel plate
water tables

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

Driller's Signature Donald L. Aker

Driller's Address

LICENSE NO. 50

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	130	gumbo + streaks of coal
130	185	sand
185	190	gumbo

190 Show exact depth of bottom

47572

12.5.1
856
G. W. Well Appropriation
Wright, Alex
to
Public, the

STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana this 28 day of Sept A. D. 19 70 at 8:45 o'clock A M

Charles E. Pangburn
County Clerk and Recorder

By Delpha E. Armstrong
Deputy

Fee Paid $ 2.00

GW

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

24

File No.....

T. 13 N R. 43 E

DUPLICATE

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

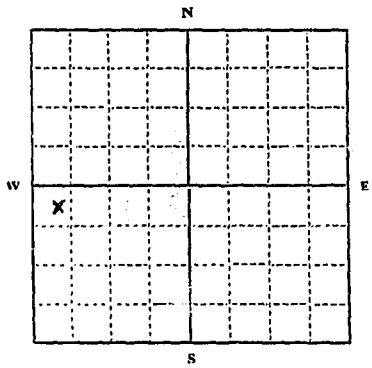
RECEIVED
JAN 6 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Axel Haglof (deceased), of Box #11 Rock Springs
(Name of Appropriator) (Address) (Town)

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



W ¼ SW¼ Sec. 24 T. 13 R. 43

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 + House

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1942, used steadily

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

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

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 1942

8. The depth of water table 30'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Cast, 4", 180'

10. The estimated amount of groundwater withdrawn each year 250,000 gal

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

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

Signature of ~~Owner~~ Operator Arthur F. Pluhar

Date 12/30/63

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

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

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

23353