GROUNDWATER INDEX

Page ___ of ___

County PRAIRIE Twp. 15N Rge. 45E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
11	BUREAU OF LAND MANAGEMENT	GW-2	94302	
12	BUREAU OF LAND MANAGEMENT	GW-4	84308	
14	McMULLIN BROTHERS	GW-2	87391	
22	BUREAU OF LAND MANAGEMENT	GW-2,	92358	
23	BUREAU OF LAND MANAGEMENT	GW-4	84307	
25	McMULLIN BROTHERS	GW-2	89324	

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

94302

County Prairie 11

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

RECEIVED
DEC 14 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Appel Well

Owner Bureau of Land Management

Address Miles City, Montana

Date well started 9/28/72

completed 9/29/72

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

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

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

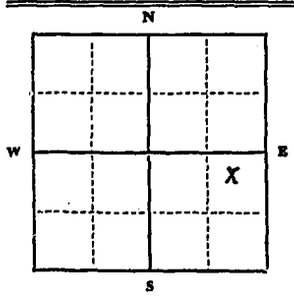
*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

For Administrator's Use
File 94302
Dec 12, 1972 9:35 a.m.
GW 1

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8 7 7/8"	6" OD 18.97#	+1	177	Slots 1/8 X 6"	125	165



ne ¼ se ¼ Sec 11
T 15 N N/S R 45E E/W

Static water level 79 ft.*
Pumping water level 105 ft.*
at 20 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by Air
for 4 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) Packer set at 110'. No Gravel pack.

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

Driller's Signature Jose Leon Johnson

Driller's Address JOE JOHNSON DRILLING, TERRY, MONTANA

LICENSE NO. 154

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	10	Brown Sand
10	20	Gray Clay
20	85	Brown & Gray Clay with stringers of Coal.
85	90	Gray sand with stringers of Coal?
90	95	Coal
95	108	Coal
108	113	Clay
113	165	Sandstone
165	177	Gray Clay

177 Show exact depth of bottom

52,016

9430

Water Well Log
Bureau of Land Management
to
The Public

FILED

at 9:35 o'clock A.M.

OCT 16 1972

John D. Stroud
County Clerk

Helen M. Sanchez
Deputy

Helena Independent Record

File No.....

DUPLICATE

T. 15 N. R. 45 E.

County Prairie

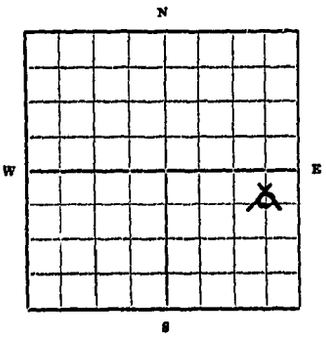
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 18 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Bureau of Land Management (Name of Appropriator), of Box 960, Miles City (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:



NE¼SE Sec. 12 T. 15N R. 45E

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

2. The beneficial use on which the claim is based
Livestock water

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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
Windmill - NE¼SE¼ of Sec. 12

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 187'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Drilled well - 187' deep, 27' tower & 8' head.

10. The estimated amount of groundwater withdrawn each year 1,500,000 gal.

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

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

District Manager
Arthur H. Zimmerman

Date 1-22-63

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.

3686

84308

FILED
at 4:10 o'clock P. M.
FEB 15 1962
County Clerk
Fee 2.00
Deputy

GW 2

STATE WATER CONSERVATION BOARD

NOV 1 1965

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

14

File No.

DUPLICATE

Bille | McDermott
Butzerin | McNulty
Coyle | Morton
Darlinton | Sullivan
Dickert

T 15 N R 45 E

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level 2714 app.

0-25 yellow sandy shale
25-35 Light Gray sand
35-54½' coal + Shale

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner McMullin Bros. Address Brockway, Mont

Driller Joe Johnson Water Dev. Address Box 372, Terry

Date of Notice of Appropriation of Groundwater

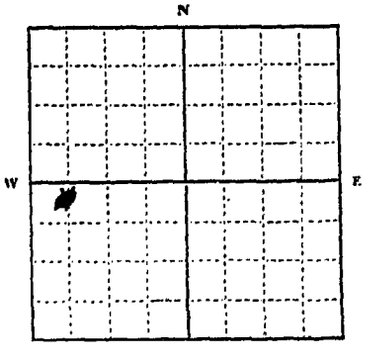
Date well started Oct 22, 1965 Date Completed Oct 23, 1965

Type of well Drilled (dug, driven, bored or drilled) Equipment Used Spudder (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)
6½"	4" I.D. 9½#/ft	0	54½'	Holes + Slots ½ 3/8 + 1/8	40	54



NW ¼ SW ¼ Sec 14 T 15 R 45

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

Static Water Level for non-flowing Well 33 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 39 feet at 45 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Bailer Length of Test 10 min. app.

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)

Well is gravel packed from 5' to Bottom.

Show exact depth of bottom.

154
Driller's License Number

Joe L 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.

39741

87391

FILED
at 10:10 o'clock A M.
OCT 29 1965
County Clerk
Deputy
Fee 2.00 Pd.

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—48557

File No.....

T. 15N R. 45E

DUPLICATE

County Prairie

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)

LOG

Comstock Well
Top of Ground

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

0 - 40 Lt. Brn. Sandy Clay
40 - 50 Clay & Coal
50 - 90 Gray Clay
90 - 110 Dk. Brn. Clay & Coal
110 - 160 Gray Soapstone
160 - 170 Dk. Brn. Sandstone
170 - 240 Gray Soapstone
240 - 290 Gray Clay
290 - 315 Brn. Sand

T.D. 317

Owner Bureau of Land Management Address Miles City, Mt.

Driller Joe Johnson Drlg. Address Terry, Mt.

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

Date well started 5/18/78 Date completed 5/21/78

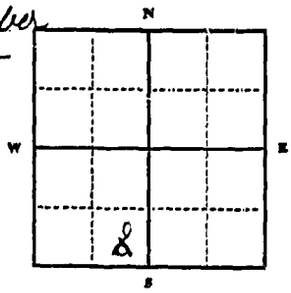
Type of well Drilled (Dug, driven, bored or drilled) Equipment used Air Rotary (Churn drill, rotary or other)

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

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)
7 7/8"	6" ID 18.97#	+1	317	Holes & Slots 3/8" & 1/8" x 6"	244	317

Doc. No. 02358
Filed for record this 11 day of September A.D. 19 78, at 12:00 o'clock P.M.



SE ¼ SW ¼ Sec. 22 T. 15N R. 45E
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 285 feet.

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

Pumping Water Level 228 feet at 12 gal. per minute.

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

How Tested Bailer & Air Lift

Length of Test 10 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff) Well Gravel Packed. Pump & Pump Pipe installed & pumping 7+ GPM

(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).

Stock watering

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.

154
Driller's License Number

Joe Don Johnson
Driller's Signature

47601

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—68557

File No.....

T. 15N R. 45E

TRIPLICATE

County Prairie

LOG

Comstock Well

Top of Ground

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

0 - 40 Lt. Brn. Sandy Clay
40 - 50 Clay & Coal
50 - 90 Gray Clay
90 - 110 Dk. Brn. Clay & Coal
110 - 160 Gray Soapstone
160 - 170 Dk. Brn. Sandstone
170 - 240 Gray Soapstone
240 - 290 Gray Clay
290 - 315 Brn. Sand

T.D. 317

Show exact depth of bottom.

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Owner Bureau of Land Management Address Miles City, Mt.

Driller Joe Johnson Drlg. Address Terry, Mt.

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

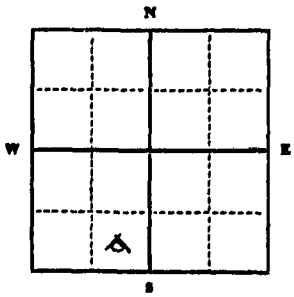
Date well started 5/18/72 Date completed 5/21/72

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 ☐

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)
7 7/8"	6" ID 18.97#	+1	317	Holes & Slots 3/8" & 1/8" x 6"	244	317



SE ¼ Sec. 22 T15N R.45E

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

Static Water Level for non-flowing well 205 feet.

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

Pumping Water Level 220 feet at 12 gal. per minute.

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

How Tested Bailer & Air Lift

Length of Test 10 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff) Well Gravel Packed, Pump & Pump Pipe installed & pumping 7+ GPM

(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).

Stockwatering

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.

154

Driller's License Number

Joe Ron Johnson

Driller's Signature

Helena Independent Record

23

File No.....

T. 15 N. R. 45 E.

DUPLICATE

County.....Prairie

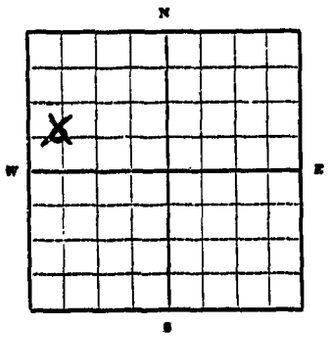
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 18 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Bureau of Land Management, of Box 960, 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:



SW.¼ NW. Sec. 23 T. 15N. R. 45E

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

2. The beneficial use on which the claim is based
Livestock water

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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
Windmill - SW¼NW of Sec. 23

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 145'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Drilled well - 145' deep

10. The estimated amount of groundwater withdrawn each year 1,500,000 gal.

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

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

District Manager
Arthur G. Zimmerman

Date 1-22-63

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.

3685

84307

GW 2

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

File No.....

DUPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED
NOV 15 1967

T..... R.....

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

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

Notice of Completion of Groundwater Appropriation by Means of Well

(under Chapter 237, Montana Session Laws, 1961)

0-3 Top soil
3-40 yellow very sandy shale
40-50 Streaks of coal + Black shale
50-75 yellow sandy shale
75-83 Blue clay

Owner McMullin Bros Address Brockway, Mont.

Driller Joe Johnson Address Terry, Mont.

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

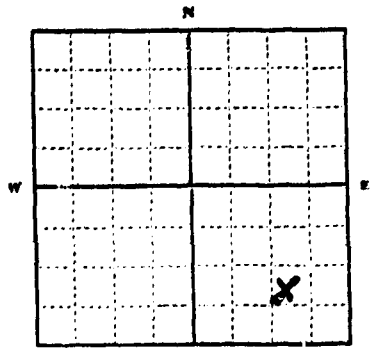
Date well started Nov. 1, 1967 Date Completed Nov. 2, 1967

Type of well Drilled (dug, driven, bored or drilled) Equipment Used Spudder (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 1/4"	4" I.D. 11#/F	+1	83	Slots	41	83



SE ¼ Sec. 25 T 15N R 45E

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

Show exact depth of bottom. 83

Static Water Level for non-flowing Well 55 feet.

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

Pumping Water Level 55 feet at 4 gal. per minute.

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

How Tested Bailer Length of Test 2 Hr.

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

Well is gravel Packed with buckshot gravel

154
Driller's License Number

Joe Leon 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.

42,533

89324

FILED
at 2:30 o'clock P. M.
NOV 14 1967
County Clerk
Deputy
Fee 200

RECEIVED

GROUNDWATER INDEX

Page ____ of ____

County PRAIRIE Twp. 15N Rge. 46E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
3	BUREAU OF LAND MANAGEMENT	GW-2	85747	
4	BUREAU OF LAND MANAGEMENT	GW-2	85745	
9	BUREAU OF LAND MANAGEMENT	GW-2	85748	
11	BUREAU OF LAND MANAGEMENT	GW-4	84281	
12	BUREAU OF LAND MANAGEMENT	GW-2	92801	
15	BUREAU OF LAND MANAGEMENT	GW-4	84309	
16	PRAIRIE COUNTY GRAZING DISTRICT	GW-2	86201	
17	BUREAU OF LAND MANAGEMENT	GW-2	88984	
19	McMULLIAN BROTHERS	WATER WELL LOG	81936	
20	BUREAU OF LAND MANAGEMENT	GW-4	84280	
22	BUREAU OF LAND MANAGEMENT	GW-4	84310	
23	BUREAU OF LAND MANAGEMENT	GW-2	88988	
24	BUREAU OF LAND MANAGEMENT	GW-2	87080	
27	BUREAU OF LAND MANAGEMENT	GW-4	84314	
33	BUREAU OF LAND MANAGEMENT	GW-4	84279	

GW 2

Redwater Well
M2-R-1157

3

File No.....

T 15 N. R 46 E.

DUPLICATE

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 10 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Silty loam - yellow
Top of Ground

(Elev. above sea level 2850)

10'

Silty, loam - Light yellow

20'

Silty, loam - Yellow

30'

Sandy coal & mica
Clay - gray

50'

Sandy coal & mica
8 g.p.m.

68' Bottom of hole

Show exact depth of bottom.

Owner Bureau of Land Management Address Box 960, Miles City, Mont.

Driller Henry Johnson Address Box 716, Terry, Montana

Date of Notice of Appropriation of Groundwater N/A

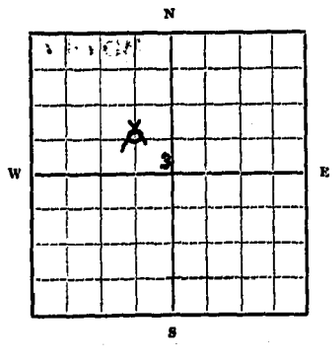
Date well started 10/16/63 Date Completed 10/18/63

Type of well Drilled (dug, driven, bored or drilled) Equipment Used Cable tool (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" I.D. 11 lb/ft.	+ 14"	65'	Holes 3/8"	28	65



SE ¼ NW Sec. 3 T 15N R 46E

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

Static Water Level for non-flowing Well 28 feet.

Shut-in Pressure for Flowing Well N/A

Pumping Water Level 57 feet at 8 gal. per minute.

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

How Tested Bailing Length of Test 1 Hr.

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

3" x 10" stroke cylinder - 8' Aeromotor

Montana #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 School of Mines and Quadruplicate for the Appropriator.

34867

85747

FILED
at 11:20 o'clock A.M.
FEB - 6 1964
County Clerk
Deputy
Fee $2.00 paid.

GW 2

File No.....

T 13 N. R 46 E.

DUPLICATE

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 10 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

0 Top of Ground

(Elev. above sea level 2940)

Yellow
Loamy clay

70'
Blue-yellow
sandstone
20 gpm

103 cased to bottom

Show exact depth of bottom.

Owner Bureau of Land Management Address Box 960, Miles City, Montana

Driller Henry Johnson Address Box 716, Terry, Montana

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

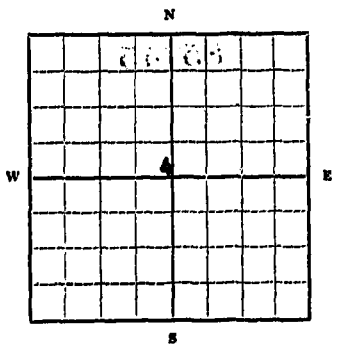
Date well started 1/7/64 Date Completed 1/8/64

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

Water Use: Domestic ☐ Municipal ☐ Stock XX 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 I.D. 11 lb/ft.	+ 14"	103	Holes 3/8"	80'	103'



SE ¼ NW Sec. 4 T 13N R 46E

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

Static Water Level for non-flowing Well 52 feet.

Shut-in Pressure for Flowing Well N/A

Pumping Water Level 74 feet at 20 gal. per minute.

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

How Tested Bailing Length of Test 1 hr.

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

3" x 10" stroke/cylinder, @ 8' Aermotor mill

6' x 6' concrete platform

Montana 82
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 School of Mines and Quadruplicate for the Appropriator.

34865

85745

FILED
at 10:20 o'clock A.M.
FEB - 6 1964
J. Ellen Johnston
County Clerk
Shannon E. Lilkendahl
Deputy
Fee 12.00 pd.

GW 2

Headwater Well
M3-R-1158

File No.....

T. 15 N. R. 46 E.

DUPLICATE

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 10 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 2970)

10' Sand Yellow

Coal - black

24'

Sandstone - yellow

53'

Coal - black

58'

Shale - coal
Blue

87'

Shale - Gray
Water - 12 gpm

120'

Sandstone - blue

130'

Sandstone - coal

144'

Bottom of Hole

Show exact depth of bottom.

Owner Bureau of Land Management Address Box 960, Miles City, Mont.

Driller Henry Johnson Address Box 716, Terry, Montana

Date of Notice of Appropriation of Groundwater N/A

Date well started 11/4/63 Date Completed 11/5/63

Type of well Drilled (dug, driven, bored or drilled) Equipment Used Cable tool (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"	6" I.D. 11 lb/ft.	+ 14"	144	Holes 3/8"	120	144

Static Water Level for non-flowing Well 120 feet.

Shut-in Pressure for Flowing Well N/A

Pumping Water Level 130 feet at 12 gal. per minute.

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

How Tested Bailing Length of Test 1 hr.

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

2½" x 10" stoke cylinder - 8' Aermotor Mill

N

W E

S

NW¼ SE Sec. 9 T. 13 N. R. 46 E

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

Montana #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 School of Mines and Quadruplicate for the Appropriator.

34868

85748

FILED
at 12:20 o'clock P.M.
FEB - 6 1964
J. Ellen Johnston
County Clerk
Marcella Jackiewicz
Deputy
Fee $2.00

Helena Independent Record

File No.....

DUPLICATE

T. 15 N. R. 46 E.

County. Prairie

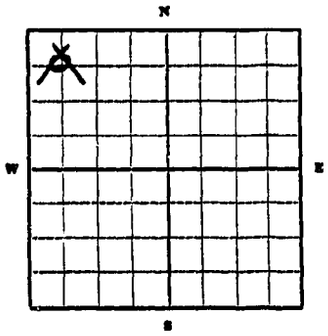
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Bureau of Land Management, of Box 960, 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:



NW¼ NW Sec. 11 T. 15 R. 46E

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

2. The beneficial use on which the claim is based
Livestock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Sept. 1948 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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
Windmill - NW¼ of Sec. 11

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started 8/1/48 and completed 8/12/48

8. The depth of water table 168'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Drilled well, 168' deep with 35' Monitor tower.

10. The estimated amount of groundwater withdrawn each year 1,500,000 gal.

11. The log of formations encountered in the drilling of each well if available
1-41' light soil; 41-45' yellow shale; 45-53' coal & water; 53-67' gray shale; 67-85' light gray shale; 85-95' gray clay; 95-120' gray sandstone; 120-127' gray shale; 127-140' sticky gray clay; 140-148' gray sandstone; 148-168' light blue coarse sandstone.

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

District Manager Arthur A. Zimmerman
Signature

Date 1-22-63

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.

3659

84281

FILED
at 4:10 o'clock P. M.
1/5/1952
County Clerk
Fee 2.00
Deputy

12

GW 2 Revised 1969
13—3M—10/69

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MAR 5 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 U.S. Bureau of Land Management

Address Miles City, Montana

Date well started 12-19-70

completed 12-27-70

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

Equipment used cable tool
(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

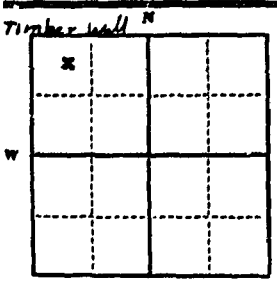
USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL 200,000 gal.

For Administrator's Use	
File	72F81
	3-4-71
GW 1	

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	6 5/8 18.97	+ 18"	~~18216~~ 181	torch cut ~~torch~~	125	137

Timber well



NW ¼ NW ¼ Sec. 12
T. 15N N R. 46E E
S W

Static water level 42 ft.*
Pumping water level 70 ft.*
at 20 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by bailer
for 4 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)
packers above & below perforations
Cement grout from surface to 3 ft. below.

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

Driller's Signature Briggs Drilling Contractor

Driller's Address Box 1083, Dillon, Montana 59725

Richard Briggs LICENSE NO. 148

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	40	sandy yellow clay
40	70	sand layers
70	80	gvl w/ clay(water seep)
80	125	sandy grey clay
125	130	grey clay
130	135	sand & clay (water)
135	181	dark clay with sandy layers

181 Show exact depth of bottom

48200

92801

Water Well Log

B. L. M.

to

The Public

FILED

11:30 o'clock A.M.

MAR 4 - 1974

Clerk of Court

Helena Independent Record

15

File No.....

T. 15 N. R. 46 E.

DUPLICATE

County Prairie

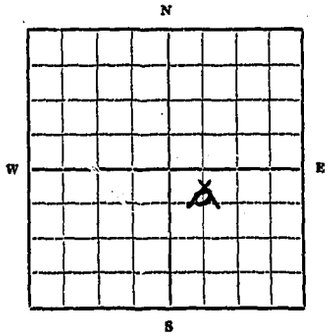
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 18 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Bureau of Land Management, of Box 960, 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:



NW¼SE Sec. 15 T. 15N R. 46E

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

2. The beneficial use on which the claim is based Livestock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1946 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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 Windmill - NW¼SE¼ of Sec. 15

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1946

8. The depth of water table Unknown

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

10. The estimated amount of groundwater withdrawn each year 1,500,000 gal.

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

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

District Manager Arthur L. Summerson

Date

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

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

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

3687

84309

FILED
at 4:10 o'clock P. M.
FEB 15 1963
County Clerk
Fee 2.00
Deputy

GW 2

File No.....

DUPLICATE

T. 15N R. 46 6

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED JUL 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.....)

0-65 Yellow Loam
65-70 Light Blue Sand
70-85 Yellow Loam
85-115 Blue Sandstone
115-120 Coal
120 125 Blue Sand
125-175 Blue Sandstone
175-180 Sandstone w/water
180-198 Blue Sandstone
198 Bottom

Owner P.C. Staying District Address Terry Mont

Driller Henry Johnson Address " "

Date of Notice of Appropriation of Groundwater N.A.

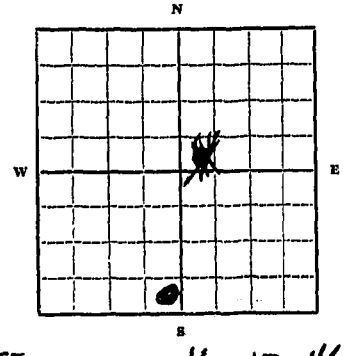
Date well started JUN 9 '64 Date Completed JUN 11 64

Type of well DRILLED (dug, driven, bored or drilled) Equipment Used CABLE Tool (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	198	3/8 Holes	90	110
					175	198



SE S1/2 1/4 Sec. 16 T. 15 R. 46

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

Static Water Level for non-flowing Well 85 feet.

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

Pumping Water Level 175 feet at 15 gal. per minute.

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

How Tested BAILER Length of Test 1/2 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) .....

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.

38285

FILED
at 2:00 o'clock P.M.
JUL 10 1964
County Clerk
Fee

862021

W 2

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

File No.....

STATE WATER CONSERVATION BOARD

JUN 29 1967

T. 15 N. R. 46 E. 17

DUPLICATE

County Prairie

LOG

Bill... McDermott
B... McNally
Co... Mason
Dar... Sullivan
Dickert

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level 2860)

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

0 - 45 Shale, Lt. Yellow Static Water Level

45-50 Shale, Lt. Yellow

50-55 Coal, Black

55-65 Shale, Blue

65-115 Sandstone, Gray

115-122 Shale, Gray

Owner Bureau of Land Management Address Miles City, Montana

Driller Joe Johnson Drilling Address Terry, Montana

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

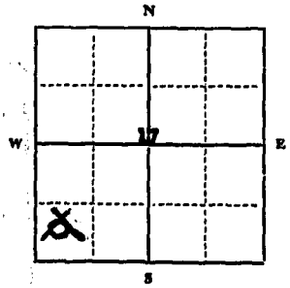
Date well started 5/16/67 Date completed 5/17/67

Type of well Drilled (Dug, driven, bored or drilled) Equipment used Cable tool (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)
8"	6" I.D. 19/18lb/ft	+ 1	122	Slots 1/4"x6"	55	122



SW¼SW Sec 17 T. 15N R. 46E.
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 45 feet.

Shut-in Pressure for Flowing Well N.A.

Pumping Water Level 70 feet at 8.5 gal. per minute.

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

How Tested Bailing

Length of Test 2 hrs.

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

Packers

(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).

N/A

Show exact depth of bottom.

McMullin Bros. Well (M2-R-1852)

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.

154
Driller's License Number

Joe Jo. Johnson
Driller's Signature

42.096

88984

FILED
at 7:40 o'clock A M.
JUN 28 1967
County Clerk
Deputy
Fee 4.20

81936

19

T..... R.....

[redacted]

County. Prairie

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
MAR 24 1961
STATE ENGINEER

WATER WELL LOG

Owner. McMillin Brothers	Address Brockway, Mont.
Driller. Henry I Johnson	Address Terry, Mont.
Date Started May 10, 1959	Date Completed May 14, 1959

Location: Sec. 19 T. 15 R. 46 ¼ sec. SW

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

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

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 138 ft. Type Std. Size 4"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 68 to ft. 80 Ft. 120 to ft. 138

Type of screen or perforations Holes

Static Water level, for non-flowing well: 58 feet.

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

Pumping water level 80 feet at 4 gal. per min.

How tested: Bailed

Length of test 1 hr.

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

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	30	Yellow Loam and shale
30	65	Shale
65	77	Coal
77	120	Shale
120	127	Coal
127	138	Shale

Helena Independent Record

20

File No.

DUPLICATE

T. 15 N. R. 46 E.

County Prairie

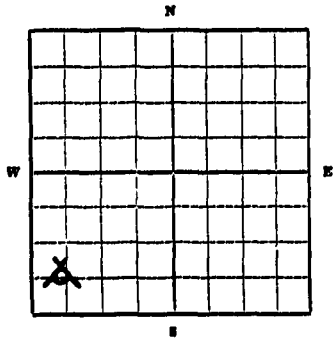
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Bureau of Land Management (Name of Appropriator), of Box 960, Miles City (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:



SW¼SW Sec. 20 T15N. R.46E

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

2. The beneficial use on which the claim is based
Livestock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1937 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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
Windmill - SW¼SW of Sec. 20

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1937

8. The depth of water table 192'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Drilled well 192' deep - standard 4" casing.

10. The estimated amount of groundwater withdrawn each year 1,500,000 gal.

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

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

District Manager [illegible] Lethwell Pennington

Date 1-25-63

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.

3658

84280

FILED
at 4 10 o'clock P. M.
SEP 15 1963
County Clerk
Fee 2.00 Pd
Deputy

4—Helena Independent Record

File No.....

DUPLICATE

T. 15 N. R. 46 E.

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

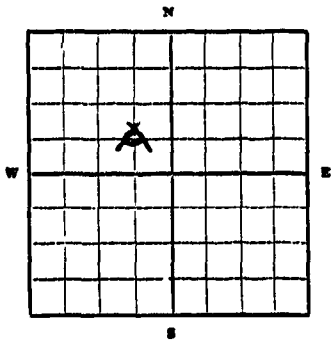
RECEIVED
FEB 18 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Bureau of Land Management, of Box 960, Miles City, Montana
(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 NW Sec 22 T. 15N R. 46E

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

2. The beneficial use on which the claim is based Livestock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 6/30/43 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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 Windmill - SE¼NW of Sec. 22

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started 6/22/43 and completed 6/29/43

8. The depth of water table 132'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled well - 132' deep, 34' of water in hole, standard 4" casing.

10. The estimated amount of groundwater withdrawn each year 1,500,000 gal.

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

District Manager
Bureau of Land Management

Date 1-22-63

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.

3688

84310

FILED
at 4 o'clock P. M.
FEB 1 5 1963
County Clerk
Fee 2.00
Deputy

GW 2

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

File No. STATE WATER CONSERVATION BOARD

JUN 29 1967

T. 15 N. R. 46 E. 23

DUPLICATE

County Prairie

LOG

Top of Ground

(Elev. above sea level)

0 - 55 Shale, Yellow
55-60 Shale, Brown
60-65 Shale, Gray
65-80 Shale, Blue gray
80-85 Sandstone, Gray
85-90 Shale, gray
90-95 Shale, Brown
95-135 Sand, Lt. Brown
135-156 Sand, Brown
Static water level
156-160 Sand, Brown
160-165 Sandy shale, Dk. Brown
165-170 Sandstone, Gray
170-175 Coal, Black
175-190 Sandstone, Gray
190-195 Coal, Black
195-210 Sandy shale, Gray
210-225 Sandstone, Gray
225-245 Shale, Gray
245-265 Sandstone, Gray
265-273 Shale, Gray

Show exact depth of bottom.

Timber Creek Well (M2-R-1857)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Bureau of Land Management Address Miles City, Montana

Driller Joe Johnson Drilling Address Terry, Montana

Date of Notice of appropriation of groundwater

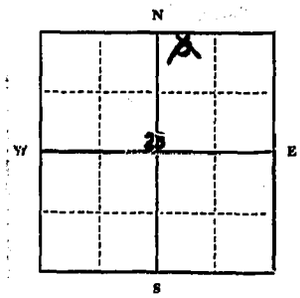
Date well started 5/4/67 Date completed 5/8/67

Type of well Drilled (Dug, driven, bored or drilled) Equipment used Cable tool (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)
8"	6" I.D. 19.18 lb/ft	+2	273	slots ⅛" x6"	150 - 233 -	190 273



NW ¼ NE Sec. 23 T. 15N R. 46E

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

Static Water Level for non-flowing well 156 feet.

Shut-in Pressure for Flowing Well N/A

Pumping Water Level 260 feet at 8 gal. per minute.

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

How Tested Bailing

Length of Test 3/5 hours

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

(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).

N/A

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.

154
Driller's License Number

Joe Jan Johnson
Driller's Signature

42,100

FILED
at 9:40 o'clock A.M.
JUN 28 1967
County Clerk
Deputy
Fee $5.00

GW 2

File No.....

T 15 N. R 46 E. 24

DUPLICATE

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAY 27 1965
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of A Well

(Under Chapter 237, Montana Session Laws, 1961)

10	Top of Ground Sand (Elev. above sea level 3270)
20	Clay
30	
40	
50	Clay
60	Clay & Sand, hard
70	
80	
90	
100	Clay & sand
110	
120	
130	
140	
150	
160	
170	
180	
190	
200	
210	
220	
230	
240	
250	
260	
270	
280	
290	
300	Top of 4" casing
310	Static water level
320	Bottom of 6" casing
330	Set pumping cylinder
340	
350	
360	
370	
380	Bottom of hole

Show exact depth of bottom.

Owner Bureau of Land Management Address Miles City, Montana

Driller Sando & Singer Address Billings, Montana

Date of Notice of Appropriation of Groundwater May 12, 1965

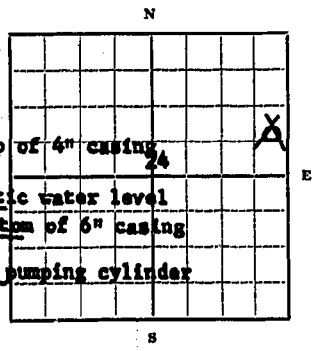
Date well started 5/3/65 Date Completed 5/12/65

Type of well Drilled (dug, driven, bored or drilled) Equipment Used Churn cable (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)
7 7/8	6 5/8 O.D.	0	318			
5	4 I.D.	299	380	1/8" 4 rows	360	375



SE ¼ NE Sec. 24 T 15N R 46E

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

Static Water Level for non-flowing Well 310 feet.

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

Pumping Water Level 330 feet at 5 gal. per minute.

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

How Tested Bailing 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)

Stockwater. Water sand at 293 ft., too fine to hold. Cased off with 6 7/8" casing.

Sando & Singer #2
Driller's License Number

/s/ Roy Singer
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.

39160

87080

FILED
at 1:15 o'clock P M.
MAY 26 1965
County Clerk
Deputy
Fee

4—Helena Independent Record

File No.....

DUPLICATE

T 15 N. R 46 E.

County Prairie

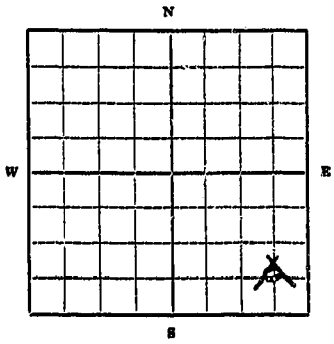
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 18 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Bureau of Land Management (Name of Appropriator), of Box 960, Miles City (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:



SE¼ SE Sec. 27 T. 15N. R. 46E

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

2. The beneficial use on which the claim is based Livestock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been August 17, 1961 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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 Windmill - SE¼SE¼ of Sec. 27

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started 8/10/61 completed 8/16/61

8. The depth of water table 233'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled well - 238' deep, standard 4" casing.

10. The estimated amount of groundwater withdrawn each year 3,500,000 gal.

11. The log of formations encountered in the drilling of each well if available 0-47' yellow clay; 47-75' coarse sand (0-1 gal/min); 75-130' gray gumbo clay; 130-131' coal; 131-204' gray gumbo clay; 204-206' hard rock; 206-233' fine sand (10 gal/min); 233-236' gray gumbo clay.

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

District Manager
Signature Arthur Hammerman

Date 1-22-63

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.

3692

84314

FILED
at 4:10 o'clock P. M.
FEB 15 1963
County Clerk
Fee 2.00
Deputy

Helena Independent Record

33

File No.....

DUPLICATE

T. 15 N. R. 46 E.

County Prairie

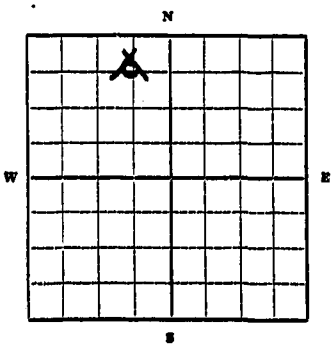
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
18 1962
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Bureau of Land Management, of Box 960, 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:



NE¼NW Sec. 33 T. 15N. R. 46E

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

2. The beneficial use on which the claim is based
Livestock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1948 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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
Windmill - NE¼NW¼ of Sec. 33

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1948

8. The depth of water table 220'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Drilled well 220' deep - standard 4" casing

10. The estimated amount of groundwater withdrawn each year 1,500,000 gal.

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

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

District Manager
Arthur A. Zimmerman

Date 1-22-63

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.

3687

84279

FILED
at 4:10 o'clock P. M.
FEB 15 1963
County Clerk
Fee $2.00
Deputy

GROUNDWATER INDEX

Page ___ of ___

County PRAIRIE Twp. 15N Rge. 47E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
2	Chapman, Lee	GW2	94805	
1	NORTHERN PACIFIC RAILWAY CO.	GW-4	85297	
1	UELAND, HANS	WATERWELL LOG	82811	
5	BUREAU OF LAND MANAGEMENT	GW-2	86874	
6	BUREAU OF LAND MANAGEMENT	GW-2	92800	
6	BUREAU OF LAND MANAGEMENT	GW-2		SAME WELL AS ABOVE
7	BUREAU OF LAND MANAGEMENT	GW-2	93445	
9	UELAND, FRANK H.	GW-4	85480	
11	UELAND, HANS C.	GW-4	85612	
18	BUREAU OF LAND MANAGEMENT	GW-4	84313	
19	BUREAU OF LAND MANAGEMENT	GW-2	87083	
22	HUBING, LEE	GW-4	85607	
23	HUBING, LEE	GW-4	85606	
24	BUREAU OF LAND MANAGEMENT	GW-2	87082	
~~2~~	~~Lee Chapman~~	~~GW-2~~	~~94805~~	

GW 2

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

RECEIVED
MAY 11 19/:
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

File No.....

DUPLICATE

T. 15 R. 47 2

County Prairie

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.....)

0-1 top soil
1-20 yellow clay
20-21 rock
21-40 sandstone
40-52 gumbo
52-84 sandstone
84-89 water sand 15 gpm

Owner Lee Chapman Address Terry, Montana

Driller Ira C. Bond & Sons Address Terry, Montana

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

Date well started 4/26/73 Date completed 4/28/73

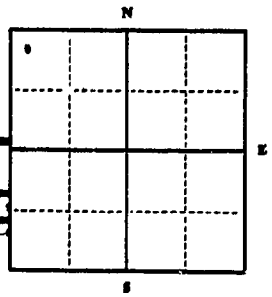
Type of well drilled (Dug, driven, bored or drilled) Equipment used cable tool (Churn drill, rotary or other)

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)
6½	4" plastic	0	89	3/16	69	87

Doc. No. 94805
Filed for record
this 10th day of May
A.D. 1973, at 2:10
o'clock PM.



Static Water Level for non-flowing well 36 feet.

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

Pumping Water Level 72 feet at 10 gal. per minute.

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

How Tested bailer

Length of Test 4

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

nw ¼ nw Sec. 2 T. 15 R. 47

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).

89

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.

37
Driller's License Number

Robert C. Bond
Driller's Signature.

53,118

94805

Water Well Log

See Shipper

to

The Public

FILED

at 8:10 o'clock P.M.

MAY 10 1973

John W. Shadel

Deputy

Deputy

GW

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

File No.....

T. 15N R. 47E

DUPLICATE

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 16 1963
STATE ENGINEER

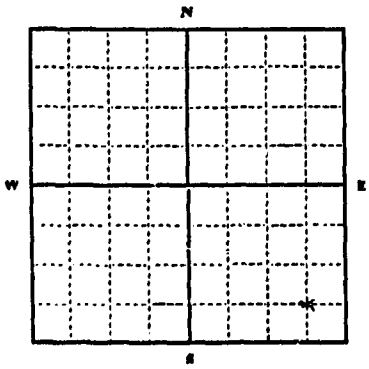
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Northern Pacific Railway Company, of N.P. Bldg. St. Paul
(Name of Appropriator) (Address) (Town)

County of Ramsey State of Minnesota

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



SE¼SE¼ Sec. 1 T15N R. 47E

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 Furnishing water for livestock.

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 24 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 None.

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

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

8. The depth of water table Unknown.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 207 feet deep - 4-inch casing.

10. The estimated amount of groundwater withdrawn each year

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 No other information available.

Northern Pacific Railway Company
Signature of Owner By [illegible]
Dist. Supervisor, Grdz. & Cult.
Date

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

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

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

9385

85297

RECEIVED

STATE ENGINEER

FILED

at 9:00 o'clock A M.

DEC 12 1963

County Clerk

Deputy

Fee 2.00 pd

T.....R. 1

County Prairie

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JAN 2 1962
STATE ENGINEER

WATER WELL LOG

Owner Hans Ostland Address Terry, Mont.

Driller Henry I. Johnson Address Terry, Mont.

Date Started June 19, 1959 Date Completed June 23, 1959

Location: Sec. 1 T. 15 R. 47 ¼ sec. NW ¼

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

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

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 207 ft. Type Std. Pipe Size 4"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 80 to ft. 100 Ft. 170 to ft. 193

Type of screen or perforations Holes

Static Water level, for non-flowing well: 30 feet.

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

Pumping water level 115 feet at 12 gal. per min.

How tested: Bailer

Length of test 1 hr

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

1"

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	35	Yellow Loam
35	45	Blue and Yellow Loam
45	85	Gray Shale
85	95	Blue Shale
95	140	Gray Shale
140	165	Blue shale
165	170	Sandy shale
170	195	Coal
195	207	Shale

FILED
at 5:00 o'clock P M.
DEC 29 1982
County Clerk
Fee 15.00
Deputy

82811

GW 2

M2-R-1349

5

File No.....

T. 15 N. R. 47 E.

DUPLICATE

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 25 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 3030)

0
10 Gravel & sand
20 Yellow clay
30
40
50 Blue shale
60
70 Sand rock
83 Shale & Sand rock
4 g.p.m.

Owner Bureau of Land Management Address Box 960, Miles City, Mont.

Driller Daniel G. Haggerty Address Box 173, Lindsay, Montana

Date of Notice of Appropriation of Groundwater June 17, 1964

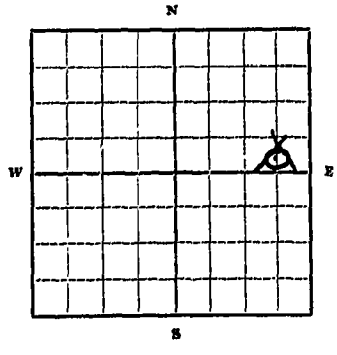
Date well started 6/17/64 Date Completed 6/22/64

Type of well Drilled (dug, driven, bored or drilled) Equipment Used Cable tool (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" I.D. 11#/ft.	+1	83	Slot 1/8"x14"	71	83



SE ¼ NE Sec. 5 T 15N R. 47E

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

Static Water Level for non-flowing Well 18 feet.

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

Pumping Water Level 30 feet at 4 gal. per minute.

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

How Tested Bailing Length of Test 2 hr.

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

Well is gravel packed

Water - fair

Show exact depth of bottom.

#13
Driller's License Number

Daniel G. Haggerty
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.

38977

86874

FILED
at 9:35 o'clock A M.
FEB 24 1965
Ellen Johnston
County Clerk
Deputy
Fee 2.00 Pd.

GW 2 Revised 1969
13—3M—10/69

County Prairie 6

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

RECEIVED
MAR 5 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 U.S. Bureau of Land Management

Address Miles City, Montana

Date well started 11-30-70

completed 12-4-70

For Administrator's Use
File 92800
3-4-71
GW 1

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

Equipment used cable tool (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

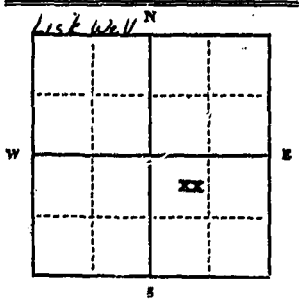
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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 200,000 Gal.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	6 5/8 18.97#	+ 18"	201	torch cut 1/4x6 x4	135 160	155 190



NW¼ SW¼ Sec. 6
T. 15N N/S R. 47E E/W

Static water level 140 ft.*
Pumping water level 190 ft.*
at ? gallons per minute,
measured 180 minutes after pumping began.
*Measured from ground level.
Well developed by bailer
for 4 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) rubber packers between aquifers and above

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

Driller's Signature Briggs Drilling Contractor

Driller's Address P.O. Box 1083, Dillon, Montana 59725

Richard Briggs LICENSE NO. 148

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	70	brown clay
70	73	dark blue clay
73	90	light blue clay
90	130	grey clay
130	135	blue sticky clay
135	142	coal (little water)
142	155	clay & broken rock water increasing
155	170	sandy clay
170	190	sandy clay more water
190	201	grey sticky clay

201 Show exact depth of bottom

48199

92800

Water Well Log

B.L.M.

to

The Public

FILED

11:30 o'clock A.M.

MAR 4 - 1971

John D. Stroup

Wilma M. Stockert

Deputy

90 pg

3 GW 2 Revised 1969
15-3M-10/69

6

County Prairie

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 U.S. Bureau of Land Management

Address Miles City, Montana

Date well started 11-30-79

completed 12-4-79

For Administrator's Use
File
GW 1

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

Equipment used cable tool
(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 200,000 Gal.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	6 5/8 18.97#	+ 18"	201	torch cut 1/8x6 x4	155 160	155 190

N
W E
S

Static water level 140 ft.*
Pumping water level 190 ft.*
at 5 gallons per minute,
measured 180 minutes after pumping began.
*Measured from ground level.
Well developed by bailer
for ..... hours.
Power..... Pump..... HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) rubber packers between aquifers and above

NW¼ SW¼ Sec. 6
T. 13 N/S R. 47 E/W

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

Driller's Signature Briggs Drilling Contractor

Driller's Address P.O. Box 1083, Miles City, Montana 59301

LICENSE NO. 148

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	70	brown clay
70	73	dark blue clay
73	90	light blue clay
90	130	gray clay
130	135	blue sticky clay
135	142	coal (little water)
142	155	clay & bottom rock water increasing
155	170	sandy clay
170	190	sandy clay more water
190	201	gray sticky clay

201 Show exact depth of bottom

48050

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED

DEC 23 1971

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Prairie 7

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Bureau of Land Management

Address Miles City, Montana

For Administrator's Use
File 93445
December 22, 1971
9:15 AM
GW 1

Date well started 5/24/71

completed 5/25/71

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

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

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

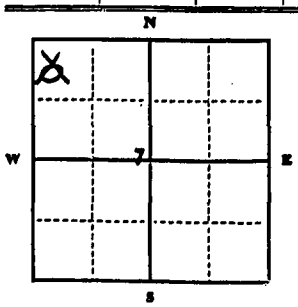
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
7 7/8"	6" ID 18.97#	+1	188	Slots 1/8 X 6"	148 90	188 110



Static water level 95 ft.*
Pumping water level 160 ft.*
at 4 gallons per minute,
measured 180 minutes after pumping began.
*Measured from ground level.
Well developed by Air
for 4 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)
Well is gravel packed

NW ¼ NW ¼ Sec. 7
T. 15 (N/S) R. 47 (E/W)

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

Driller's Signature Joe J. Johnson

Driller's Address Joe Johnson Drlg., Terry, Montana

LICENSE NO. 154

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	20	Brown Sand
20	50	Brown Clay
50	70	Gray Clay
70	80	Coal
80	150	Blue & Gray Clay with stringers of Coal & Rock
150	160	Gray Sand
160	188	Blue & Gray Clay

188' Show exact depth of bottom

49628

93445

Water Well Log
Bureau of Land Management
to
The Public

FILED
9:15 o'clock A M
DEC 22 1971
John D. Schofield
Uriah M. Calvert
Deputy

RECEIVED

Approved Stock Form—State Publishing Co., Helena, Montana—634 9

File No. .....

T. 15 N R. 47

DUPLICATE

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

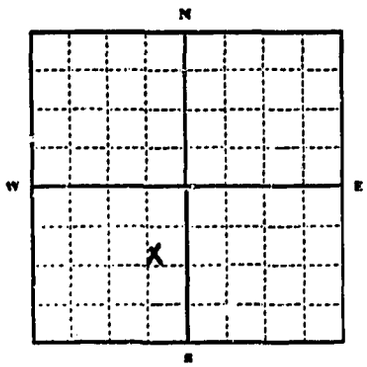
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, Frank H. Meland (Name of Appropriator), of (Address) Broadway (Town)

County of Prairie State of Montana

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



SW ¼ Sec. 9 T. 15 R. 47

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 Watering

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 7 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: No Irrigation

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Commenced + Completed 1953

8. The depth of water table: 40 feet.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Drilled — 6 inch casing — 72 feet deep

10. The estimated amount of groundwater withdrawn each year: 1,814,400 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: None

Signature of Owner: Frank H. Meland

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.

15613

85480

FILED
at 4:00 o'clock P. M.
DEC 27 1963
County Clerk
Deputy
Fee 2.00