3-GW 2 Revised 1969
13—3M—10/69

County [illegible]

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 [illegible]

Address [illegible]

For Administrator's Use
File
GW 1

Date well started [illegible]

completed [illegible]

Type of well [illegible] (Dug, driven, bored or drilled)

Equipment used [illegible] (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 [illegible]

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8 18.97	+1	46	[illegible]	40	45

N
W E
S

Lot 2 7
T. 38 ¼ ¼ Sec. [illegible]
T. ..... N/S R. ..... E/W

Static water level 15 ft.*
Pumping water level 23 ft.*
at 10 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by [illegible]
for 2 hours.
Power [illegible] Pump 1/3 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) .....

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

Driller's Signature [illegible]

Driller's Address [illegible]

[illegible] LICENSE NO. [illegible]

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	4	topsoil
4	30	sandy clay
30	37	fine sand
37	46	sand, some gravel (water)
		potential mud problem

46 _____ Show exact depth of bottom

48019

GW 2

STATE WATER CONSERVATION BOARD

Approved Stock Form—State Publishing Co., Helena, Montana—42325

File No. ..... NOV 12 1965

T. 3S R. 40 E

DUPLICATE

Bille ..... McDermott .....
But[illegible] ..... McNulty .....
Co[illegible] ..... Morton .....
Darlington ..... Sullivan .....
Dickert .....

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

LOG

Top of Ground

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

0'-14' Topsoil

14'-26' Gravel

26'-32' Scoria

39' Static Level — 32'-40' Clay

40'-44' Scoria (14 gal per. min.)

50' Pump Level — 44'-50' Shale

50'-51' Coal

51'-60' Sandrock

60'

Show exact depth of bottom.

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Wilfred Spang Address Lame Deer, Mont.

Driller Elbert Folkers Address Forsyth, Mont.

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

Date well started 10/15/65 Date completed 10/16/65

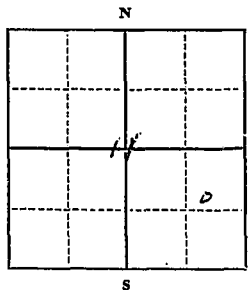
Type of well Drilled (Dug, Driven, bored or drilled) Equipment used Churn (Churn drill, rotary or other)

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
7"	6 5/8" O.D. Steel -	0	60	Vertical Slotted	40	50

Sec. 11, T. 35, R. 40 E



NE 1/4 SE Sec. 11 T. 35 R. 40 E

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

Static Water Level for non-flowing well 39 feet.

Shut-in Pressure for Flowing Well Not Applic.

Pumping Water Level 50 feet at 14 gal. per minute.

Discharge in gal. per min. of flowing well Not Applicable

How Tested Bailed

Length of Test 2 hrs

Remarks: (Gravel packing, cementing, packers, type of shutoff) Not Applicable

For home use and Stock water

(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).

Not Applicable

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.

104

Driller's License Number

Elbert Folkers

Driller's Signature

39799

214262

STATE OF MONTANA
County of Big Horn } ss.

The within instrument was filed
In my office at Hardin, Montana, this
~~NOV 9 1965~~ day of
NOV 10 1965 A. D. 19____
at 8:00 o'clock A.M.

Nancy E. Cox
County Recorder
By Rudy Wimple Deputy

GROUNDWATER INDEX

County Big Horn Twp. 4 S Rge. 26 E.

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
25	Pryor Land Co	GW3	206569	
27	Hamilton, Herman	GW1	200467	
27	Hamilton, Herman	GW2	201073	
30	Crawford, Madge L.	GW3	206180	
30	Crawford, William	GW2	221449	
30	Crawford, Madge L.	GW2	206181	
32	Wilson, Emma	GW4	204905	
32	Wilson, Emma	GW2	222347	

25

File No. .....

DUPLICATE

T. 4 S. R. 26E., P.M.,M.

County Big Horn

RECEIVED
JAN 8 1964
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1960

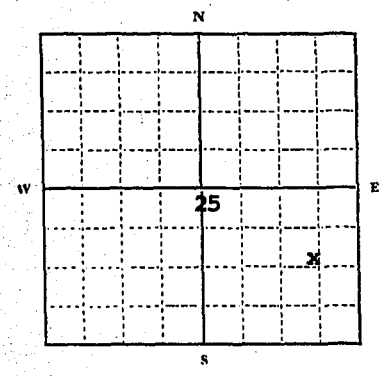
Owner PRYOR LAND CO., a Montana Corporation Address Hardin, Montana

Contractor (if any) None

Address of Contractor None

Date Started 1960 Date Completed 1960

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable The spring is used for stock water. The groundwater is obtained by sub-irrigation and other natural processes.



SE ¼ Sec. 25 T. 4S R. 26E

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

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use The undersigned would estimate that 10 gallons a minute is used.

Signature of Owner By: PRYOR LAND CO.
Attorney in Fact

Date December 31, 1963

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

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

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

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

26855

206569

STATE OF MONTANA } ss.
County of Big Horn

The within instrument was filed
In my office at Hardin, Montana, this
DEC 31 1963 day of
A. D. 19
at 1:54 o'clock P. M.

Mary E. Cox
County Recorder

By Goldie L. Smith Deputy

GW 1

27

File No.....

T. 4 S. R. 26 E.

DUPLICATE

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 17 1962
STATE ENGINEER

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

1. I, Herman Hamilton (Name of Appropriator), of Pryor Star Route, Billings, Montana (Address) (Town) County of Big Horn, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is Irrigation in N½ NW¼ of Sec. 7 Township 4 South, Range 26 East
(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed
2400 gallons per minute

4. The annual period (inclusive dates) of intended use From the first of May through September

5. The probable or intended date of first beneficial use May 1, 1963

6. The probable or intended date of commencement and completion of the well* or wells*
November 15, 1962 or sooner

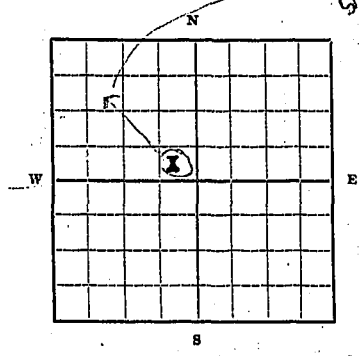
7. The location, type, size and depth of well or wells contemplated
South East corner of NW¼NW¼ of Sec. 27, T. 4 S., R 26E.

8. The probable or estimated depth of the water table or artesian aquifer 30 feet

9. Name, address and license number of the driller engaged B. & H. Drilling
Fishtail, Montana # 27

Show location here

10. Give such other similar information as may be useful in carrying out the policy of this act



NW¼NW¼ Sec 27 T4S R26E.

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Herman Hamilton

Date October 15, 1962

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

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

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

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

9253

200467

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this OCT 15 1962 day of ..... A. D. 19.....

at 3:45 o'clock P.M.

Harry E. Cook
County Recorder

By Ruby Wemple Deputy

GW-2

File No.....

DUPLICATE

T. 4S. R. 26 E.

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 27 1962
STATE ENGINEER

Top of Ground 0-2' Topsoil.

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

Gravel & Sand Rocks.

Gravely Clay -

Gray Shale.

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Mr. Herman Hamilton Address Pryor Star Route Billings, Mont

Driller B & H Drilling Address Fishtail, Mont

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

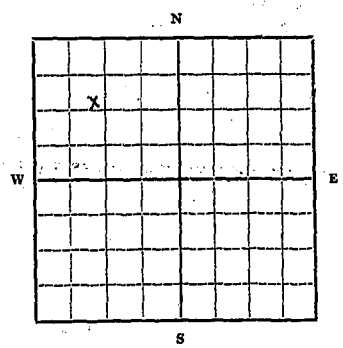
Date well started 11/8/62 Date Completed 11/13/62

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
12 in	12 in 43#	+2	30	Torch Cut 24 x 3/4	9'	30'



NW 1/4 NW 1/4 Sec. 27 T. 4S R. 26 E

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

Static Water Level for non-flowing Well 7 feet.

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

Pumping Water Level 19 feet at 1200 gal. per minute.

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

How Tested Bailer & Pump 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) .....

Show exact depth of bottom.

32 ft.

NO. 27
Driller's License Number

Reef L Haugan
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.

2566

201073

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed
in my office at Hardin, Montana, this
NOV 26 1962 day of
A. D. 19
at 10:55 o'clock A.M.

Nancy E. Cook
County Recorder

By Ruby Wemple Deputy

W.3

Approved Stock Form—State Publishing Co., Helena, Montana—39089

30

File No.....

T. 4 S R. 26 E

DUPLICATE

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1926

Owner Madge S. Crawford Address Billings, Mont

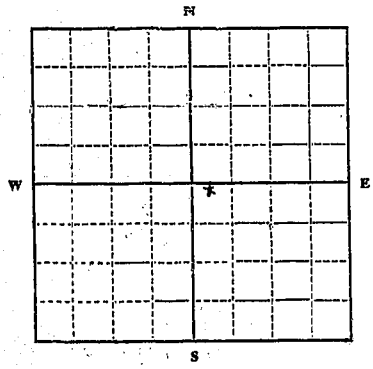
Contractor (if any) None

Address of Contractor None

Date Started 1948 Date Completed 1948

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

Sub irrigation



WW¼ SE¼ Sec. 30 T. 4S R. 26E

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

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use 12 mos.

used continually for household & stockwater

Signature of Owner Madge S. Crawford

Date Dec. 17, 1963

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

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

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

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

21613

206180

STATE OF MONTANA }
County of Big Horn } ss:

The within instrument was filed in my office at Hardin, Montana, this DEC 20 1963 day of _____ A. D. 19____ at 8:05 o'clock A.M.

Mary E. Cole
County Recorder

By Ruby Wemple Deputy

GW 2

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

30

File No.....

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

DUPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED
FEB 8 1968

County Big Horn

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

0-60 clay & sandy soil
60-80 sand rock
some water
80-110 shale
110-125 red clay
sands & gravel
125-130 rock
130-275'
varying layers
of rock & shale
with additional
water

Owner William Crawford Address Pryor, Mont.

Driller Sands Drilling Address Billings

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

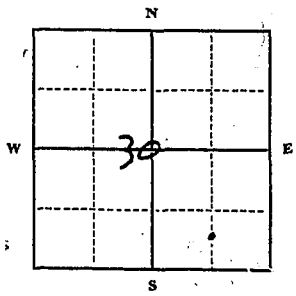
Date well started 6/1/67 Date completed 6/6/67

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

Water use: Domestic [X] 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 1/4	10 ft 19 lb	+1'	9			
	16 ga gal.	91	275	1/4 x 1"	60 250	90 270



Static Water Level for non-flowing well 60 feet.

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

Pumping Water Level 5 feet at 9 1/2 gal. per minute.

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

How Tested Bailing

Length of Test 1 hr

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

.....1/4 Sec. 30 T 4S R 26 E

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.
275'

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.

36
Driller's License Number

Clyde E. McKechnie
Driller's Signature.

42,799

221449

STATE OF MONTANA
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this FEB 7 1968 day of A.D. 19 at 11:50 o'clock A.M.

Joyce [illegible]
County Recorder

By Ruby [illegible] Deputy

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—39318

File No.....

T. 4 S. R. 26 E.

DUPLICATE

County Big Horn

RECEIVED JAN 3 1964 STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

10' sandy soil
2' soft sandrock
28' clay and gravel
1' sandrock

Owner Madge Crawford Address Billings, Mont

Driller Clyde E. McKeehan Address Laurel, Mont

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

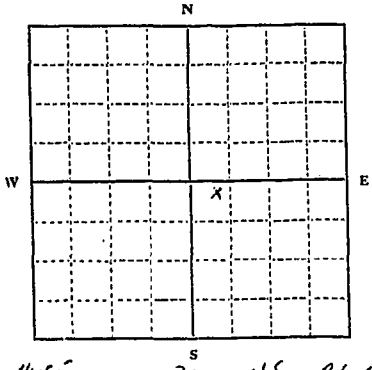
Date well started Oct 22, 1963 Date Completed Oct 23, 1963

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 3/4	6" S.D.	+1'	39'	Cut 1/8 x 3-5"	19'	39'



NWSE 1/4 Sec. 30 T. 4 S R. 26 E

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

41'

Show exact depth of bottom.

Static Water Level for non-flowing Well 11' feet.

Shut-in Pressure for Flowing Well not flowing

Pumping Water Level 19' feet at 25 gal. per minute.

Discharge in gal. per min. of flowing well not flowing

How Tested Bailing Length of Test 30 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) None

36
Driller's License Number

Clyde E. McKeehan
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.

21614

206181

STATE OF MONTANA
County of Big Horn } ss.

The within instrument was filed
in my office at Hardin, Montana, this
DEC 20 1969 day of
A. D. 19
8:10 o'clock A.M.

County Recorder

Deputy

32

File No. 1

DUPLICATE

T. 4S R. 26E.

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
AUG 29 1963
STATE ENGINEER

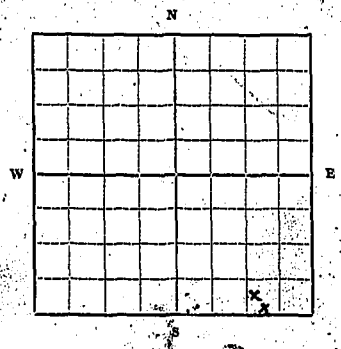
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Emma Wilson (Name of Appropriator), of 145 Custer Ave. Billings (Address) ~~Montana~~ (Town)

County of Big Horn State of Montana

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



SW SE SE 1/4 Sec. 32 T. 4S R. 26E

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Approx 35 yrs

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1927.

8. The depth of water table 120 ft one well 40 ft in other

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. The estimated amount of groundwater withdrawn each year 1000 gal a day

11. The log of formations encountered in the drilling of each well if available ~~1000 gal a day~~

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 Emma Wilson

Date Aug 27th 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 School of Mines and Quadruplicate for the Appropriator.

5594

204905

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this AUG 28 1963 day of _____ A. D. 19____ at 8:00 o'clock AM.

Harry E. Cash
County Recorder

By Ruby Temple Deputy

GW 2

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

32

File No.....

ONTANA WATER RESOURCES BOARD
RECEIVED
MAY 1 1968

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

DUPLICATE

County Big Horn

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground 0-2 Black Top Soil

(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)

2-33 Limestone Gravel - water

33-49 Gravel & Rock

Owner Mrs Emma Wilson Address 145 Custer Ave Billings, Mont.

Driller B + H Drilling Address Fishtail, Mont.

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

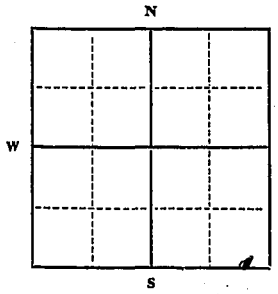
Date well started 4/4/68 Date completed 4/5/68

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6 inch	6 5/8 280 wall	1+	49	Torch Cutter 6 X 1/8	43	48



SE 1/4 SE 1/4 Sec. 32 T. 4S R. 26E

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

Static Water Level for non-flowing well 30 feet.

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

Pumping Water Level 43 feet at 15 gal. per minute.

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

How Tested Bailer

Length of Test 2 hrs -

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

.....(Continue on reverse side)

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

Show exact depth of bottom.

49 ft.

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

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

No 27

Driller's License Number

Red L Haugen

Driller's Signature.

44,081

222347

STATE OF MONTANA }
County of Big Horn } ss:

The within instrument was filed
In my office at Hardin, Montana, this
APR 29 1968 day of
A. D. 19
at 3:30 o'clock P. M.

Joyce Lippert
County Recorder

By Ruby Wemple Deputy

GROUNDWATER INDEX

County Big Horn Twp. 4 S Rge. 27 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
5	Millibin, Louis	GW2	No#	
28	Schaak, Lawrence L.	GW3	206531	
28	Schaak, Lawrence L.	GW3	206532	

3 GW-2 Revised 1969
13—3M—10/69

County [illegible] 05

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA WATER RESOURCES BOARD
RECEIVED
JAN 18 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 [illegible]

Address [illegible]

Date well started [illegible]

completed

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 1,000,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8" 28#-8"	04	46		42	46

N
W E
S

Static water level [illegible] ft.*
Pumping water level [illegible] ft.*
at 20 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by bailer
for 2 hours.
Power elec. Pump 1/2 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

SW ¼ NE ¼ Sec. 5
T. [illegible] N/S R. [illegible] E/W

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

Driller's Signature Pingree Drilling Contractor

Driller's Address P.O. Box 1063 Dillon, Montana 59725

Richard Buggs 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)	
1	2	topsoil
2	10	sticky gumbo-dark
10	28	clay-gravel-red
28	30	gravel-[illegible]
30	40	(cemented) gravel-[illegible]
40	46	sandy gravel-[illegible]

46 Show exact depth of bottom

49020

W 3

Approved Stock Form—State Publishing Co., Helena, Montana—39089

28

File No.....

T. 4 S. R. 27 E., P.M.,M.

DUPLICATE

County Big Horn

RECEIVED
JAN 8 1964
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater May 1955

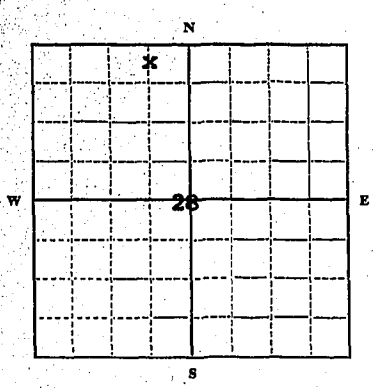
Owner WILLIAM A. SCHAAK Address 2414 Spruce Billings, Montana

Contractor (if any) None

Address of Contractor None

Date Started May 1955 Date Completed May 1955

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



NW ¼ Sec. 28 T4S R27E. P.M.,M.
Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use All of the springs flow naturally the year around. 1 cu. foot per second is estimated to be the flow developed and used as stock water and for irrigation from each spring.

Signature of Owner William A. Schaak

Date December 20, 1963

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

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

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

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

26823

206532

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was file
In my office at Hardin, Montana, thi
DEC 31 1963 day o
A. D. 19
at 10 00 o'clock A. M.

County Recorder

By Helen Smith Deputy

GW 3

Approved Stock Form—State Publishing Co., Helena, Montana—39089

28

File No.....

T. 4S ..... R. 27E., P.M., M.

DUPLICATE

County ....Big Horn.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 8 1964

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

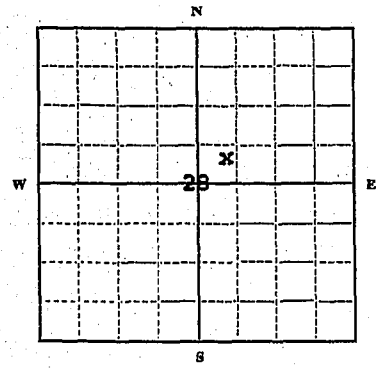
Date of Appropriation of Groundwater ..May 1955.....

Owner ....LAWRENCE L. SCHAAK..... Address ..2414 Spruce Billings, Mont.

Contractor (if any) .....None.....

Address of Contractor ....None.....

Date Started ..May 1955..... Date Completed ....May 1955.....



NE ¼..... Sec. 28 T4S., R. 27E. P.M., M.
Indicate point of appropriation and place of use, if possible.

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

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

All of the springs flow naturally the year around. .1 cu. foot per second is estimated to be the flow developed and used as stock water and for irrigation from each spring.

Signature of Owner Lawrence L. Schaak

Date ....Dec. 20, 1963.....

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

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

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

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

26822

206531

TATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this

DEC 31 1963 day of

A. D. 19

at 10 00 o'clock A.M.

County Recorder

By Deputy

GROUNDWATER INDEX

County Big Horn Twp. 4 S Rge. 28 E.

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
27	Pryor Land Co.	6W3	206560	
24	Pryor Land Co.	6W3	206565	
33	Pryor Land Co.	6W3	206563	

27

File No. .....

T. 4 S. R. 28 E., P.M.,M.

DUPLICATE

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1950

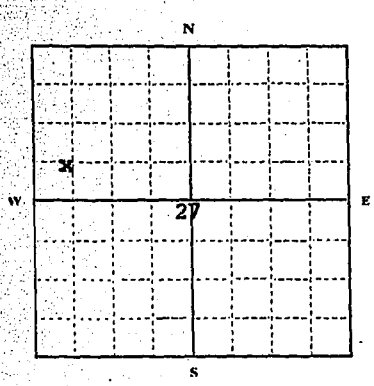
Owner PRYOR LAND CO., a Montana Corporation Address Hardin, Montana

Contractor (if any) None

Address of Contractor None

Date Started 1950 Date Completed 1950

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. This spring is used for stock water. The groundwater is obtained by sub-irrigation and other natural processes.



NW ¼ Sec. 27 T. 4 S. R. 28E., P.M.M.
Indicate point of appropriation and place of use, if possible.

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

Estimated Use:

30 Gallons per minute

Signature of Owner PRYOR LAND CO. By: [signature] Attorney in Fact

Date December 31, 1963

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

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

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

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

26846

206560

STATE OF MONTANA
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this

DEC 3 1 1969 day of

A. D. 19

at 1:30 o'clock P. M.

Harry E. Cox
County Recorder

By Goldie L. Smith Deputy

28

File No.

DUPLICATE

T. 4 S. R. 28 E., P.M.M.

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1950

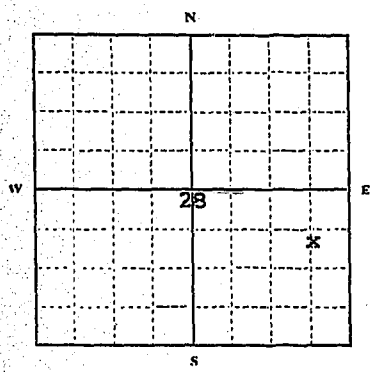
Owner PRYOR LAND CO., a Montana Corporation Address Hardin, Montana

Contractor (if any) None

Address of Contractor None

Date Started 1950 Date Completed 1950

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. This spring is used for stock water. The groundwater is obtained by sub-irrigation and other natural processes.



SE ¼ Sec. 28 T. 4S R. 28 E. P.M.M.
Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use. Estimated Use: 10 gallons per minute

Signature of Owner PRYOR LAND CO.
By: Richard B. Horland
Attorney in Fact
Date December 31, 1963

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

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

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

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

26851

206565

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this DEC 31 1963 day of ..... A.D. 19..... at 1:48 o'clock P.M.

Mary E. C.
County Recorder

By Gelina L. Smith Deputy

33

File No.

DUPLICATE

T. 4 S. R. 28 E., P.M.M.

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1960

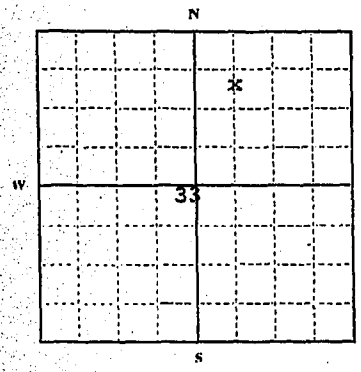
Owner PRYOR LAND CO., a Montana Corporation Address Hardin, Montana

Contractor (if any) None

Address of Contractor None

Date Started 1960 Date Completed 1960

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. This spring is used for stock water. The groundwater is obtained by sub-irrigation and other natural processes.



NE ¼ Sec. 33 T. 4 S. R. 28 E.
Indicate point of appropriation and place of use, if possible.

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

Estimated Use:
10 gallons per minute

Signature of Owner By: PRYOR LAND CO.
Richard B. Hoover
Attorney in Fact

Date December 31, 1963

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

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

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

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

26849

206563

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this DEC 31 1969 day of A. D. 19 at 1:45 o'clock P. M.

Harry E. Cox
County Recorder

By Goldie L. Smith Deputy

GROUNDWATER INDEX

County Big Horn Twp. 4S Rge. 32E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
23	Snively, Alta	GW4	206486	
24	Lawrence, Minnie C.	GW4	206346	
35	Soap Creek Cattle Co.	GW3	199810	

File No.....

T. 4S R. 32 23

DUPLICATE

County.....

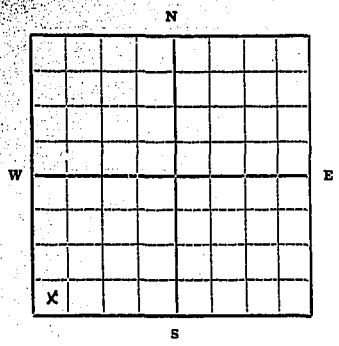
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Alta Snively, of St. Xavier
(Name of Appropriator) (Address) (Town)
County of Big Horn State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW ¼ SW Sec. 23 T 4S R 32

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

2. The beneficial use on which the claim is based household, livestock water and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1951
Use has been continuous since 1951

4. The amount of groundwater claimed (in miner's inches or 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 SW ¼ SW Sec 23 T4S R32
Approximately one acre at it

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Fall 1951

8. The depth of water table 14 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
Pounded type well
6" galvanized casing
32 feet deep

10. The estimated amount of groundwater withdrawn each year 232,500 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

Signature of Owner Alta Snively

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 School of Mines and Quadruplicate for the Appropriator.

26777

206486

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this

DEC 31 1963 day of

A. D. 19

at 8:32 o'clock P. M.

Harry E. Cox
County Recorder

By Goldie Smith Deputy

File No. .....

DUPLICATE

T. 4S R. 32E

County Big Horn

24

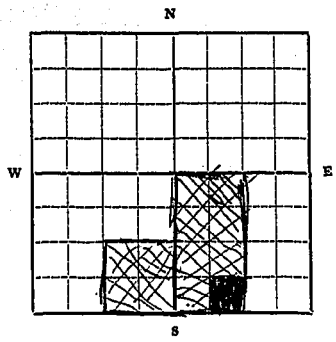
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Minnie C. Lawrence, of Star Route Hardin Mont
(Name of Appropriator) (Address) (Town)
County of Big Horn State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW¼SE¼ Sec. 24 T4S R32E

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

2. The beneficial use on which the claim is based Household use, stock water, Lawn & Garden use.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Sept. 1928 and in continous use since

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof 10 Acres in SW¼ of SE¼ indicated on map. Lawn & Gardin use Minnie C. Lawrence

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pump in the SW¼ of SE¼ of Sec 24, T. 4S R. 32E

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Sept. 1928

8. The depth of water table 10 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater pump at 60 ft Depth with 6" in Diameter for one pump

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

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

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 Minnie C. Lawrence

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 School of Mines and Quadruplicate for the Appropriator.

21701

206346

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this DEC 27 1969 day of A.D. 19__ at 2:15 o'clock P.M.

Mary E. Cook
County Recorder

By Goldie Smith Deputy

GW3

File No. Should be GWa if not a spring

DUPLICATE

T 4S R 32E

County Big Horn

35

RECEIVED
JUL 30 1962
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 25 years ago

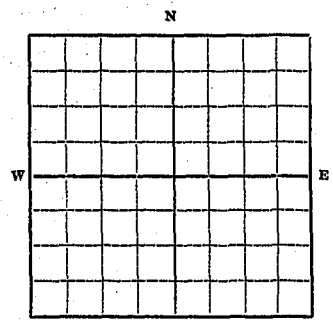
Owner Soap Creek Cattle Co. P. R. Krone, Pres. Address St. Xavier, Montana

Contractor (if any)

Address of Contractor

Date Started Date Completed 25 years ago

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



35

SE ¼ NE¼ Sec. XX T 4 S R 32 E

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

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

Used for domestic purposes.

Signature of Owner P R Krone

Date

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

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

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

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

1886

199810

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this JUL 27 1962 day of _____ A. D. 19____

at 8:15 o'clock A.M.

Harry E. Cox
County Recorder

By Ruby Wemple Deputy

GROUNDWATER INDEX

County Big Horn Twp. 4 S Rge. 33 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
6	Uffleman, William	GW2	236340	
19	Kenney, Dean	GW2	206946	

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
JUL 24 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Big Horn

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 William Uffleman

Address St. Xavier, Mont.

Date well started May 28, 1972

completed June 29, 1972

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 ☐

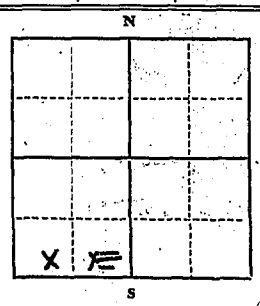
*Describe

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).

For Administrator's Use
File 236340
July 21, 1972 10:25 a.m.
GW 1

ESTIMATED ANNUAL WITHDRAWAL could use 881,688,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
12 3/4	8 5/8" 26#b	0	90			
6¼	4½" 9#	0	1536			
				open	1536	1622



Static water level ..... ft.*
Pumping water level ..... ft.*
at 170 gallons per minute,
measured ..... minutes after pumping began.
*Measured from ground level.
Well developed by .....
for ..... hours.
Power ..... Pump ..... HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) cemented surface and longstring cemented by Halliburton 137 lb top hole pressure

SW ¼ SW ¼ Sec. 6
T. 4 N R. 33 E
S W

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

Driller's Signature B. M. Munson

Driller's Address Grass Range, Mont.

LICENSE NO. 26

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	25	Silt
25	83	Intermitten gravel & sand
83	90	Shale (greyish)
90	480	Grey shales, few shaly sand streaks
480	890	cavey fissle, black to grey shales
890	1000	Shale-calcite stringers bentonite layers
1000	1260	Thin lenses of sand and sticky shales
1260	1380	Black shales and indurated limey sandstone
1380	1485	Mostly black shale and some indurated siltstone, marron specks
1485	1525	Parafine balls, maroon shale, red claystone streaks
1525	1530	Colodial shale and lime
1530	1536	Lavanted limestone
1536	1551	Quartzsic sandstone (Sugar sand) H_2O flow 3gal./min.
1551	1618	Salt and pepper sand
1618	1622	Dark shale and silt sand Hydro carbon specks
1622	T.D.	

1622 Show exact depth of bottom

50,996

236340

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this

JUL 21 1972 day of A. D. 19

at 10:25 o'clock A.M.

Joyce Liesenfeld
County Recorder

By Ruby Hilsenfeld Deputy

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—39089

19

File No. .....

T. 4 S R. 33 E

DUPLICATE

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 15 1962
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'	Soil
10'	Sand & Gravel
20'	
30'	Quicksand
50'	
55'	Quicksand - Gravel
53'	
66'	Gravel - Water

Owner Dean Kenney Address Star Route Hardin, Mont.

Driller C. S. Jones Address Hardin, Mont.

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

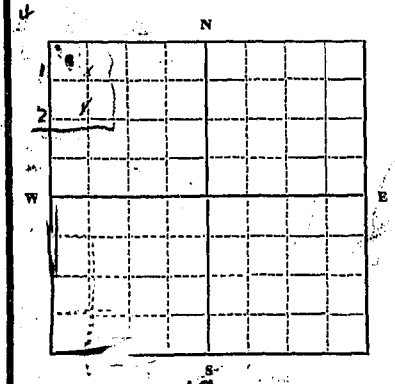
Date well started Oct 21, 1962 Date Completed Oct 26, 1962

Type of well Drilled (dug, driven, bored or drilled) Equipment Used Drill

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" Black Iron Except for Bottom joint	0'	43'	None		
	Galvinized 6"	43'	66'			



¼ Sec 19 T 4S R 33E

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 34' down feet.

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

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

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

How Tested ..... Length of Test .....

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) .....

81
Driller's License Number

Clarence S. Jones
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.

2515

200946

STATE OF MONTANA }
County of Big Horn } ss:

The within instrument was filed in my office at Hardin, Montana, this NOV 14 1962 day of

A. D. 19

at 4:15 o'clock P.M.

Harry E. Cox
County Recorder

By Ruby Wempe Deputy

GROUNDWATER INDEX

County Big Horn Twp. 45 Rge. 35

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
10	Marghein, Bob & Shirley L.	GW2	238688	
12	Conner, Clara A.	GW4	206346	
12	Hartung, Robert W	GW4	206398	
12	Hartung, Robert W.	GW4	206375	
14	Weibert, Fred J.	GW4	206614	
16	Calvetti, Andrew R.	GW4	206683	
16	Indian Health Service	GW2	Not#	
21	Green, Walter O. Jr.	GW4	206328	
21	Green, Walter O Jr.	GW4	206329	
21	Green, Walter O. Jr.	GW4	206330	
22	Weibert, Fred J.	GW4	206612	
24	Weibert, Henry	GW3	206526	
29	Green, Walter O. Jr.	GW4	206331	
31	Jeffers, Winfield W	GW3	206509	
33	Fellows, Walter	1961	197368	
33	Fellows, Walter	1961	197369	
35	Weibert, Henry	GW4	206352	

3-GW-2 Revised 1969
STATE PUBLISHING COMPANY

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

RECEIVED
BIG HORN DRILLING
602 WEST 2ND
HARDIN, MONTANA 59034
JAN 11 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Big Horn

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 Bob Mangheim
Shirley L. Mangheim
Address [illegible]
Hardin

Date well started Dec 11, 1972
completed Dec 12, 1972

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

Equipment used [illegible]
(Churn drill, rotary or other)

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

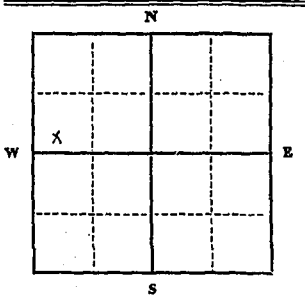
*Describe

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 238688
January 10, 1973 1:15 p.m.
GW 1

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 [illegible]	0	22'	[illegible]	[illegible]	[illegible]



Static water level 8' ft.*
Pumping water level 12 ft.*
at 50 gallons per minute,
measured 30 minutes after pumping began.
*Measured from ground level.
Well developed by [illegible]
for [illegible] hours.
Power [illegible] Pump [illegible] HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

NW ¼ NW ¼ Sec. 10
T. 4S N/S R. 35 E/W

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

Driller's Signature [illegible]

Driller's Address [illegible]
Hardin, Mont. LICENSE NO. 231

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	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

50' Show exact depth of bottom

52,195

238688

STATE OF MONTANA }
County of Big Horn } ss.

The within Instrument was file
In my office at Hardin, Montana fo
record, this 16 th day o
January A. D. 1973
at 11:50 o'clock P. M., and is dul
recorded in Book
at page
Joyce Dippert
County Recorde
By Dorothy Jones Deput
Fee: $ 2.00
Return to

File No.....

DUPLICATE

T. 4S R. 35E

County Big Horn

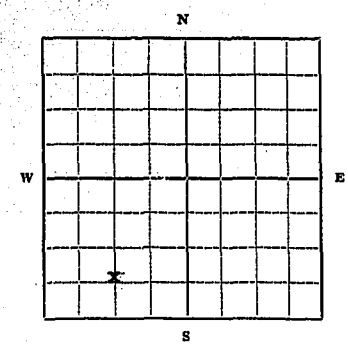
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED JAN 6 1964 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Clara A. Conner (Name of Appropriator), of P.O. Box 3 (Address) Garryowen, Montana (Town)
County of Big Horn State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE ¼SW Sec2 T4S R35WE

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 culinary Irrigation, livestock use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been continuous since August 1947

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 gpm

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof ½ acre lawn & garden belonging to Clara A. Conner

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater August 1947

8. The depth of water table 70 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 one well, 6 inch I.D. casing TD 72 ft.

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

11. The log of formations encountered in the drilling of each well if available 0-2, alluvium, 2-10, weathered shale, 10-16, sandy shale, 16-70 hard, thickly bedded marine shale, 70-72 sandy aquifer Surface formation is Bearpaw shale. Water rose to within 20 feet of surface

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 Clara A. Conner

Date Dec. 20, 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 School of Mines and Quadruplicate for the Appropriator.

21677

206316

STATE OF MONTANA }
County of Big Horn } ss:

The within instrument was filed
In my office at Hardin, Montana, this
DEC 27 1963 day of
A. D. 19
at 9:10 o'clock A.M.

Harry E. Cox
County Recorder

By Ruby Weingle Deputy

File No. .....

T 4 S R 35E

12

DUPLICATE

County Big Horn

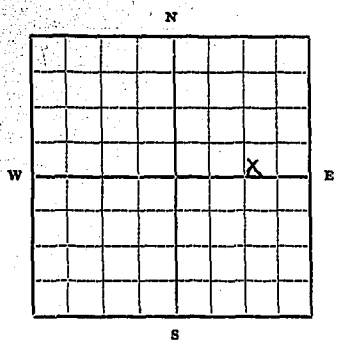
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Robert W. Hartung, of Crow Agency
(Name of Appropriator) (Address) (Town)
County of Big Horn State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



W½ ¼SE¼ Sec 12 T 4 S R 35 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 human and livestock watering, irrigation

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 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 one acre lawn and garden irrigation W½SE¼, Sec. 12; T. 4 S; R. 35 E. Robert W. Hartung

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

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

8. The depth of water table 60 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater six inch cased well, 60 feet deep

10. The estimated amount of groundwater withdrawn each year approximately 5,256,000 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 not available

Signature of Owner Robert W. Hartung

Date December 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 School of Mines and Quadruplicate for the Appropriator.

21730

206398

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this DEC 30 1963 day of A. D. 19 at 10 45 o'clock A M.

Harry E. Cox
County Recorder

By Goldie L Smith Deputy

File No. .....

T 4 S R 35 E

DUPLICATE

County Big Horn

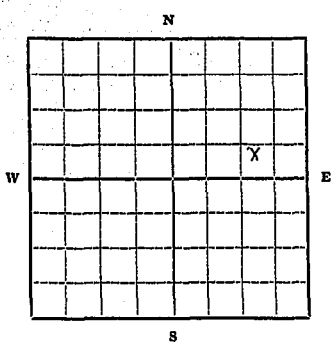
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Robert W. Hartung, of Crow Agency
(Name of Appropriator) (Address) (Town)
County of Big Horn State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



W½ ¼ SE¼ Sec. 12 T4S R35E

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

2. The beneficial use on which the claim is based irrigation and livestock watering

3. Date or approximate date of earliest beneficial use; and how continuous the use has been prior to 1929 and continuous use since

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 500 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 70 acres, W½SE¼ of Section 12, T 4S, R. 35 E

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

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

8. The depth of water table 8 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater not applicable

10. The estimated amount of groundwater withdrawn each year approximately 262,800,000 gal.

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

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

Signature of Owner Robert W. Hartung

Date December 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 School of Mines and Quadruplicate for the Appropriator.

21716

206375

STATE OF MONTANA
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this

DEC 30 1963 day of

A. D. 19

at 8 12 o'clock A.M.

Harry E. Cary
County Recorder

By Gelia L. Smith Deputy

File No.....

DUPLICATE

T. 4 R. 35 14

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

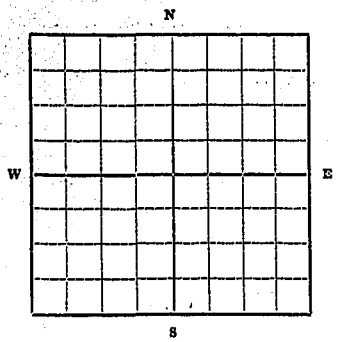
RECEIVED
JAN 8 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Fred J. Weibert, of Hardin
(Name of Appropriator) (Address) (Town)

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



NE¼NE Sec. 14 T. 4 R. 35

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 10/1955

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 gal/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 10/1955 + completion 10/1955

8. The depth of water table 45 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 55 feet deep [illegible]

10. The estimated amount of groundwater withdrawn each year Varies

11. The log of formations encountered in the drilling of each well if available none

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 Fred J. Weibert

Date 12/31/1963

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

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

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

26900

206614

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this

DEC 31 1963 day of

A. D. 19

at 2:47 o'clock P.M.

Harry E. Cox
County Recorder

By Ruby Wemple Deputy

File No. .....

DUPLICATE

T. 4S R. 35E 16

County Big Horn

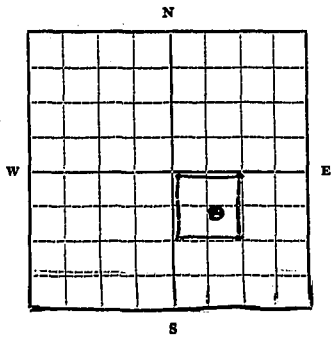
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 8 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Andrew A. Calvetti (Name of Appropriator) of Lodge Grass (Address) (Town)
County of Big Horn State of Montana have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW ¼ SE ¼ Sec. 16 T. 4 S R. 35 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 household & general farmstead use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been I have had possession of this place 3 yr + in continual use
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallons per min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
Unknown
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal pump - Well - location on diagram at left
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Unknown
8. The depth of water table 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 Well is approx - 55' deep 5" Casing - It originally had a pump (manual) I have installed an electric pump -
10. The estimated amount of groundwater withdrawn each year 110,000 gal -
11. The log of formations encountered in the drilling of each well if available None avail -
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 Avail -

Signature of Owner Andrew A. Calvetti

Date Dec 31/63

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

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

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

26969

206683

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed in my office at Hardin, Montana, this DEC 31 1963 day of A. D. 19 at 3:57 o'clock P.M.

Nancy E. Cole
County Recorder

By Rusty Wemple Deputy

3 GW 2 Revised 1969
13—3M—10/69

County [redacted] 16

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA WATER RESOURCES BOARD
RECEIVED
JAN 18 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.

[redacted]

Owner [redacted]

Address [redacted]

For Administrator's Use
File
GW 1

Date well started [redacted]

completed [redacted]

Type of well [redacted]
(Dug, driven, bored or drilled)

Equipment used [redacted]
(Churn drill, rotary or other)

Water Use: Domestic [redacted] Municipal ☐ Stock ☐ Irrigation ☐

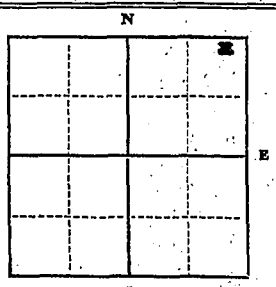
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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 [redacted] gal.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8 [redacted]	+1	37	[redacted]	30	37



[redacted] ¼ [redacted] ¼ Sec. [redacted]

T. [redacted] N/S R. [redacted] E/W

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

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

Driller's Signature [redacted]

Driller's Address [redacted]

[redacted] LICENSE NO. [redacted]

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	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
37		

Show exact depth of bottom

48023

21

File No. .....

DUPLICATE

T. 4 S. R. 35 E.

County Big Horn

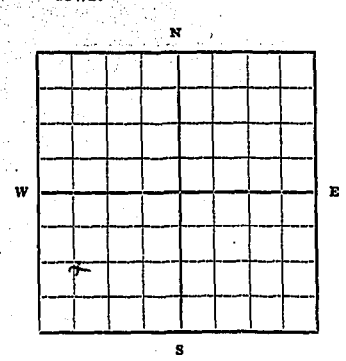
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Walter O. Green, Jr., of Lodge Grass
(Name of Appropriator) (Address) (Town)
County of Big Horn State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW ¼ SW ¼ Sec. 21 T 4S R 35E

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 human and livestock watering

3. Date or approximate date of earliest beneficial use; and how continuous the use has been prior to 1931 and continuous use since

4. The amount of groundwater claimed (in miner's inches or gallons per minute) approximately 10 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 not applicable

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1931

8. The depth of water table 60 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater six inch cased well, 60 feet deep

10. The estimated amount of groundwater withdrawn each year approximately 5,256,000 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 not available

Signature of Owner Walter O. Green Jr.

Date December 27, 1963

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

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

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

21689