

## GROUNDWATER INDEX

Page      of

County CUSTER Twp. 11N Rge. 45E

[illegible]

10931

Montana State Publishing Co., Helena, Montana

TRIPPLICATE

ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

DE

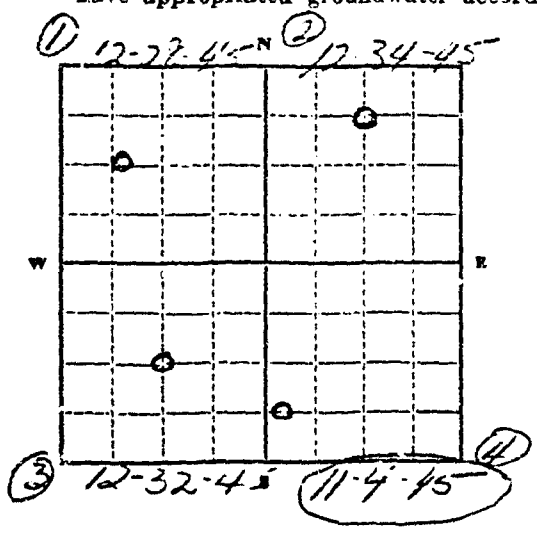
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Hathern Brothers of Box 257 Helena City (Town)  
(Name of Appropriator) (Address)

County of Golden State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1961, as follows:



1/4 Sec. T. R.  
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 raising

3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been 1. 1948, 2. 1952, 3. 1953  
4. 1959 summer range, annual use.

4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 1. 5 gals., 2. 4 gals., 3. 5 gals.  
4. 8 gals.

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.....  
All wells pumped by windmills.

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater..... not available

8. The depth of water table..... 1. 120 ft., 2. 13 ft., 3. 110 ft., 4. 90 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other  
works for the withdrawal of groundwater..... Wells 1, 2, and 4 have 1 1/2 inch pump pipe  
with 2 inch cylinder. No. 4 has 2 inch pump pipe with 1 1/2 inch cylinder

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 The estimated amount of groundwater withdrawn each year.....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

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..... Walter B. Hathern  
Date..... 5/22/62

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.

10941

File No.....

**T R**

**DUPLICATE**

County.....

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

# Declaration of Vested Groundwater Rights

1. Kathars Bros. of Box 267 Wilder City  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Mont.  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

5  
1-11-44E<sup>N</sup> 9-11-45E

W R

7-11-45E 17-11-45E

7 8

1/4 Sec. T. R.

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 water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been..... 5. 1955 6. 1953  
7. 1933 8. 1954  
5, 6, 7 summer range, 8 winter range
4. The amount of groundwater claimed (in miner's inches or gallons per minute)..... 5. 10 gals. 6. 10 gals. 7. 5 gals.  
8. 10 gals.
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.....  
5, 6, 7 powered by windmills 8 by pump jack
7. The cost of the construction of the well, wells, or other works for withdrawing water.....  
available
8. The depth of the well, wells, or other works for withdrawing water.....  
6. 200 ft 7. 100 ft. 8. 70 ft
9. The size and depth of each well or the general specifications of any other water.....  
wells 5, 6, 7 & 8 have 1 1/2 inch pump pipe  
well 7 has 2 inch pipe with 1 1/2 inch cy-linder
10. The amount of water withdrawn each year..... Not known
11. The drilling of each well if available..... Not available
12. Any other information as may be useful in carrying out the policy of this act, including any record.....  
well no. 5 is very strong still  
was found in artesian sand in that water level  
ing.

Signature of Owner

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.

1394

1980

F I L E

It 12159 8 Check 41

Dec. 27 1963

H. E. Anderson

County Clerk and Ex-Officio Recorder  
Custer County, Montana

by \_\_\_\_\_ Deputy

File No. ....

DUPLICATE

T. 11 R. 45

County .....

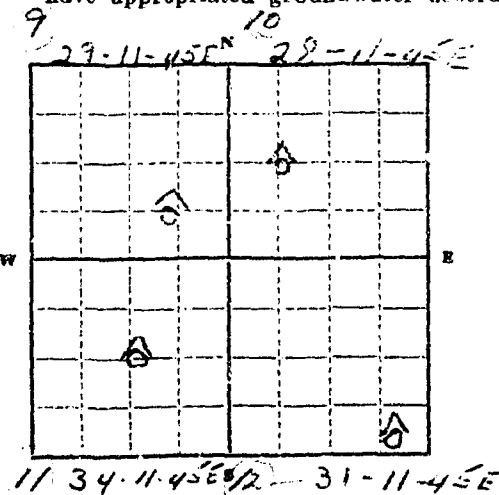
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Mathers Bros. of Sec. 267 Miles City  
(Name of Appropriator) (Address) (Town)

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



1/4 Sec. T. R.

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... wells  
2, 11, and 12 stock water well 10 is at hdq.  
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been 9. 1956 10. 1946 11. 1956  
12. 1956 winter range

4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 9. 8 gals 10. 10 gals 11. 10 gals  
12. 10 gals.

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  
11 wells on pump jacks.

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater not available

8. The depth of water table 9 76 ft. 10. 1000 ft. 11. 1000 ft 12. 1000 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 wells 9 & 10 have 1 1/2 inch pump pipe with 2 inch  
cylinder, well 10 has 2 1/2 inch pump pipe with 2 1/2 inch cylinder, well 11 has 2 inch  
pump pipe with 1 1/2 inch cylinder

10. The estimated amount of groundwater withdrawn each year not known

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 wells 10 and 11 are in the artesian  
sand being pumped 100 feet.

Signature of Owner

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.

13445

74  
FILE  
11 10:57 10:00 A.  
Dec 27 1963  
J. H. Anderson  
County Clerk and Ex. Comm. Recorder  
Chico, Georgia  
34

## GROUNDWATER INDEX

Page of

County CUSTER

Twp.

11N

Rge.

46E

[illegible]

File No. ....

T. H. N. R. Y. L. E.

DUPLICATE

County Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER  
OFFICE OF STATE ENGINEER

RECEIVED  
JUL 27 1964

# Notice of Completion of Groundwater Appropriation by Means of WELL ENGINEER

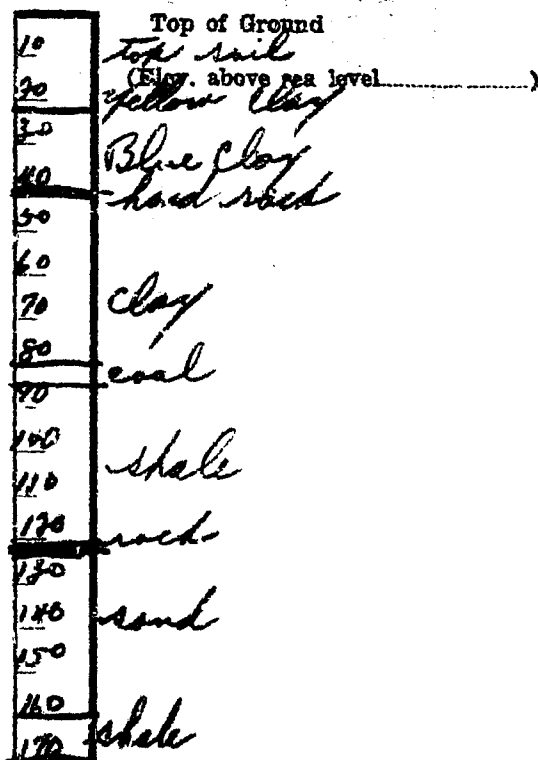
(Under Chapter 237, Montana Session Laws, 1961)

Owner N. H. Ranch Address Crow RockDriller Shelby Higgins Address Miles CityDate of Notice of Appropriation of Groundwater 6-23-64Date well started 6-10-64 Date Completed 6-23-64

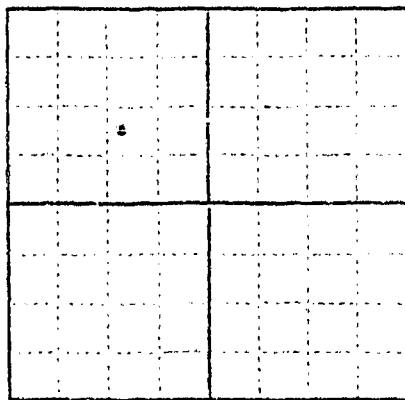
Type of well Drilled Equipment Used Rotary  
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

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

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



Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 7/8	8 lb 4"	0	170	3/8 holes.	175	170



N.W. 1/4 Sec. 9 T. 11 N. R. 5 E  
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 60 feet.

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

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

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

How Tested Pailer Length of Test 2 hrs

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

12  
Driller's License Number

Shelby Higgins  
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.

38324.



13514

**FILED**

At 3:25 O'clock P M

July 23 1964

H. E. Anderson

County Clerk and Ex-Officio Recorder of  
Custer County, Montana

By

Deputy

GW.

Approved Blank Form—State Publishing Co., Helena, Montana—4224

File No.

T. 11 R. 46

DUPLICATE

County. Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Live Spring  
and Creek

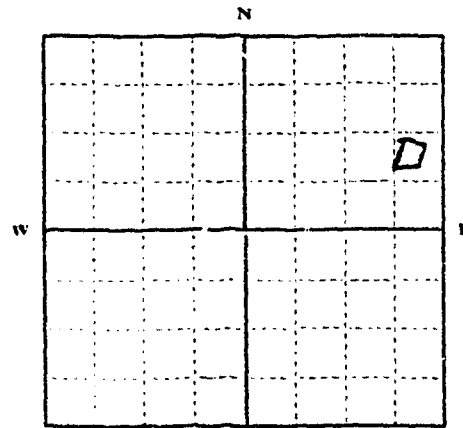
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

JAN 8 1964

N-N Land & Livestock Co. of 910 Pleasant St. Missoula  
(Name of Appropriator) (Address) (Town)

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



NE 1/4 Sec. 21 T. 11 R. 46

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 Water

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

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

Not used for irrigation

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 1940

8. The depth of water table Ground level

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 Runs the Creek for 2 to 3 miles

10. The estimated amount of groundwater withdrawn each year 4,000,000 gal

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

N-N Land & Livestock Co  
Signature of Howard Bell  
Date Jan 6 1964

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

27003

11474

F I L E

2:52 9 Clock P.  
Jan. 7 1964  
J. E. Anderson  
County Clerk and Ex-Officio Recorder  
County Finance Master

GW.

Approved Stock Form State of Montana, Helena, Montana, 42234

File No.

T 11 R 46

DUPLICATE

County *Custer*

## STATE OF MONTANA

## ADMINISTRATOR OF GROUNDWATER CODE

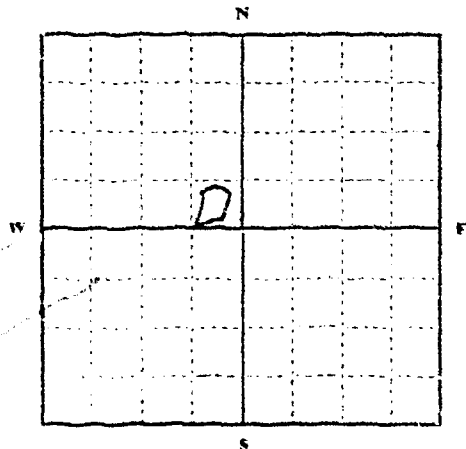
## OFFICE OF STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

*Fire Spring*  
 1. *N-N Land & Livestock Co.* of *970 Pleasant St. Billings*  
 (Name of Appropriator) (Address) (Town)

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



NW 1/4 Sec. 24 T. 11 R. 46

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 Water*

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) *3 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 used for irrigation*

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 *1940*

8. The depth of water table *Ground level*

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 *runs creek for 1/4 mile*

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

*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*

*N-N Land & Livestock Co.*  
 Signature of Owner *Howard Bellin*

Date *Jan 6 1964*

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.

26999

11470

P U I L E I  
11 21 48 O'Clock P.  
Jan. 7 1964  
J. E. Anderson  
County Clerk and Ex. Officio Recorder  
Guster County, Montana  
by \_\_\_\_\_ Depict

File No. ....

T. 11 R. 46

DUPLICATE

County Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

JAN 8 1964

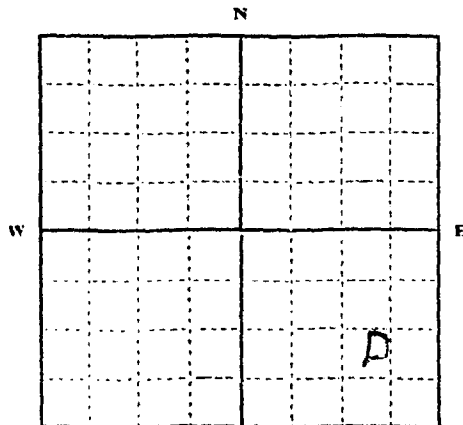
Live Spring

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. N-14 Land & Livestock Co. of 910 Pleasant St. Miles City  
(Name of Appropriator) (Address) (Town)

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



SE 25 T. 11 R. 46

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 Water

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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 used for irrigation

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 1940

8. The depth of water table Ground level.

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 Revs into holes in  
creep for 1/4 mile.

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

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

None 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

N-14 Land & Livestock Co.  
Howard Billing

Date

Jan 6 1964

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.

27002

11473

FILED

11 2:54 O'Clock P.

Jan 7 1964

J. E. Anderson

County Clerk and Ex-Officio Recorder

Eagle County, Montana

11 Page

STATE WATER CONSERVATION BOARD

File No. \_\_\_\_\_

MAR 22 1967

DUPLICATE

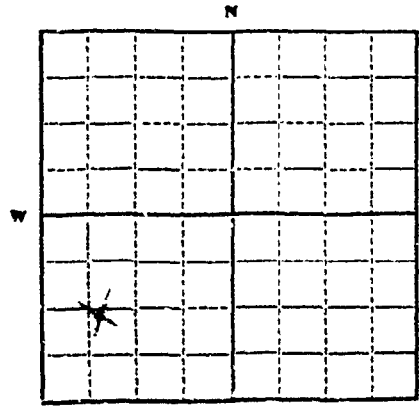
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER  
Dickart

T. 11 R. 46  
County. Carter

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, James H. Hume, of Liberty, Montana  
(Name of Appropriator) (Address) (Town)  
County of Carter State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



S. 4 Sec. 31 T. 11 R. 46

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

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

3. Date or approximate date of earliest beneficial use, and how continuous the use has been. Sept. 1, 1966  
used for 2 months during fall

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 14 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.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Sept. 1, 1966

8. The depth of water table. 100 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.

10. The estimated amount of groundwater withdrawn each year. 125,000 (100 ft)

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

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

Signature of Owner. James H. Hume

Date. Mar 21, 67

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.

41814



22399

**F I L E D**

# 1645 O'Clock A. M.

March 21 1967

W. J. Sanderson

County Clerk and Ex-Officio Recorder of

Custer County, Montana

By \_\_\_\_\_ Deputy

quest of Examination  
The date of execution must not antedate the date of the execution of the will, unless the will is a

File No. \_\_\_\_\_

T. \_\_\_\_\_ R. \_\_\_\_\_

DUPLICATE WATER CONSERVATION BOARD

County Custer

MAR 22 1967

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

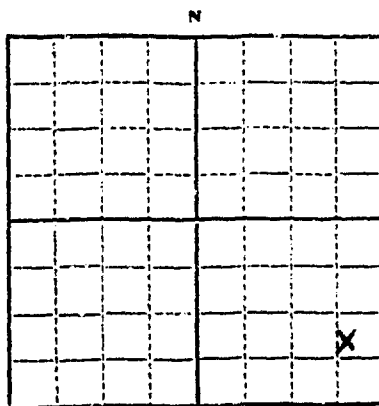
D. \_\_\_\_\_  
E. \_\_\_\_\_  
C. \_\_\_\_\_  
D. \_\_\_\_\_

### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Anderson Spence of 1000 North 17th Street  
(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  $\frac{1}{4}$  Sec. 31 T.11 R.46

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 domestic

3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been December 15, 1966  
continuous

4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 10 gal 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  
not used for irrigation

6. The means of withdrawing such water from the ground and the  
location of each well or other means of withdrawal  
submersible pump (elect)

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater March 15, 1966  
March 1, 1966

8. The depth of water table 115'

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 1 1/2" 4 inch casing  
5 foot deep

10. The estimated amount of groundwater withdrawn each year 90,000 gal

11. The log of formations encountered in the drilling of each well if available.  
0-3 ft - sand 50-75 ft - sand  
4-4 1/2 ft - gravel 95-150 ft - sand  
41-50 ft - sand

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

Signature of Owner Anderson Spence

Date Mar 21, 1967

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.

41813

22100

**FILED**

At 11.50 O'clock A.M.

March 21, 1967

W. J. Sanderson

County Clerk and Ex-Officio Recorder of

Custer County, Montana

By \_\_\_\_\_ Depu

7. The date of execution and location of the instrument is as stated above.

31281

County Lincoln

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 London Sprague

Address Crow Rock Rd.

White City

Date well started 9-15-70

completed 9-16-70

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Rotary

(Cable drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

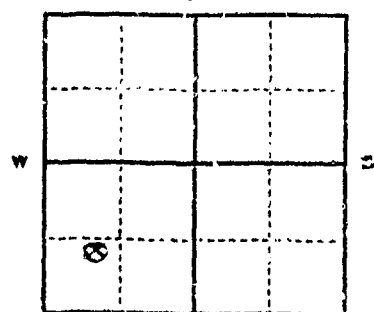
Industrial ☐ Drainage ☐ Other ☐ Garder/Lawn ☐

\*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS	Kind Size	From (Feet)	To (Feet)
5 5/8	4" Plastic	0	225	3/8	165	225	
				7 holes			



Static water level 170 ft.  
Pumping water level 150 ft.  
at 1.0 gallons per minute  
measured 10 minutes after pumping  
began.

\*Measured from ground level.  
Well developed by Basin  
for 2 hours.

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

S.W. 1/4 S.W. 1/4 Sec 3, T. 11 N. R. 4 E. S. 5 W.

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

Driller's Signature Lloyd Higgins

Driller's Address 721 N. Quarter

White City

LICENSE NO. 12

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	3.6	soil
3.6	107	shale - grey
107	110	rock
110	170	shale - grey
170	220	sand - water
220	225	shale

225 Show exact depth of bottom

48062

31281

**FILED**  
At 3:45 O'Clock P. M.  
January 1951  
D. L. Jones  
County Clerk and Ex-Officio Recorder of  
Custer County, Montana  
Fec 212

County CUSTER Twp. 11 N Rge. 47 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
8	PATTERSON, G. W.	WATER WELL LOG	189205	

T. 11 R. 47County CUSTERMONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

## WATER WELL LOG


Owner G. W. Patterson Address Wilon City, Mont.  
 Driller I. C. Bond Address Terry, Montana  
 Date Started July 10, 1957 Date Completed July 11, 1957  
 Location: Sec. 8 T. 11 R. 47  $\frac{1}{4}$  sec. SE $\frac{1}{4}$  of NE $\frac{1}{4}$

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
 Industrial ☐ Drainage ☐ Other: also for lawn and trees

Casing: 1' above surface ft. to 112 ft. Type Steel Size 4"

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. 80 to ft. 102 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_Type of screen or perforations 5/16 holesStatic Water level, for non-flowing well: 60 feet

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

Pumping water level 90 feet at 10 gal. per min.How tested: baillerLength of test 4 hrs.

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

## GROUNDWATER INDEX

Page \_\_\_\_\_ of \_\_\_\_\_

County CLUSTER Twp. 11 N Rge. 47 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
8	PATTERSON, G. W.	WATER WELL LOG	189205	

### Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	3	Sandy Clay
3	26	Sand Stone
26	28	Coal
28	36	Sand Stone
36	58	Light colored clay
58	68	Gumbo
68	80	Sand Stone
80	102	Water Sand
102	112	Gumbo

9:50 O'clock A.  
 Feb 3 1928  
 Wm. C. and Ex-Off. Recorder  
 Geo. C. and Ex-Off. Recorder

100

## GROUNDWATER INDEX

Page of

County CLUSTER Twp. 10N Rge. 45E

[illegible]



File No. ....

T. 10 R. 1

DUPLICATE

County. .....

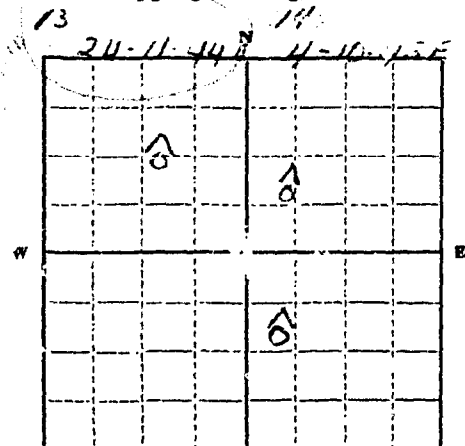
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 1962

**Declaration of Vested Groundwater Rights**  
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER  
# 1045 - 24

1. Mathers Bros. of Box 27 Helena City  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Mont.  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



15-9-104 E

1/4 Sec. .... T. .... R. ....

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 water

3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been..... 13. 1940 14. 1980  
15. 1958  
winter range annual use

4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 13. 5 gals. 14. 8 gals. 15. 5 gals.

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

13 pumped by windmill  
14 and 15 pumped by pump jack

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater..... not available

8. The depth of water table..... 13. 180 ft. 14. 60 ft. 15. 20 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..... Wells 13 and 14 have 2 inch pump pipe with  
1 13/16 inch cylinder. Well 15 has 1 1/2 inch pump pipe with 2 inch cylinder.

10. The estimated amount of groundwater withdrawn each year..... not known

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..... W. J. Mathers

Date..... 3/23/62

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.

13444

1878

FILED

At 10:55 O'clock A.M.

Dec 27 1863

H. E. Anderson

County Clerk and Ex-Officio Recorder

Custer County, Montana

14

File No. ....

T. 10N R. 45E

DUPLICATE

County Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

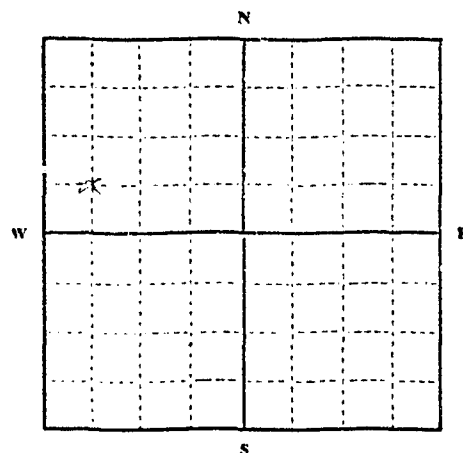
RECEIVED  
DEC 16 1963

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Northern Pacific Railway Company, of N.P. Bldg. St. Paul  
(Name of Appropriator) (Address) (Town)  
County of Ramsay State of Minnesota  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 9 T10N 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 Furnishing  
water for livestock.

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

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

5. If used for irrigation, give the acreage and description of the lands  
to which water has been applied and name of the owner thereof  
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 with-  
drawal of groundwater Well, drilled in 1959.

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 35 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 None available.

Northern Pacific Railway Company  
Signature of Owner By J. F. Schilling  
Dist. Supervisor, Graz. & 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.

FILE

At 7:30 O'Clock PM

Dec 17 1963

H. E. Anderson  
County Clerk and Ex-Officio Recorder  
Custer County, Montana

By \_\_\_\_\_

RECORDED  
INDEXED  
DEC 17 1963

GW 2

File No. ....

DUPLICATE

RECEIVED  
JUL 19 1962

T. 10 N. R. 10 E.

County. Carbon

STATE ENGINEER  
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEERNotice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner *M. M. Munn* Address *Missoula City*Driller *Floyd Higgins* Address *Missoula City*

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

Date well started *6-28-62* Date Completed *7-9-62*Type of well *Drilled* Equipment Used *Rotary*  
(dug, driven, bored or drilled) (Churn, drill, rotary or other)Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

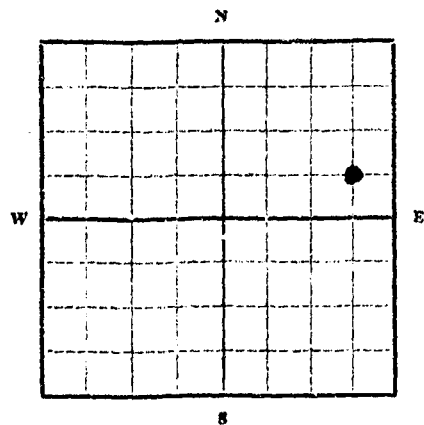
Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Top of Ground  
Elev. above sea level.....)

0  
22  
25  
35  
37  
125  
127  
153  
256  
292  
295  
340  
355  
393  
393  
425  
440  
445

soil  
clay  
rock  
clay  
rock  
shale  
rock  
sand & shale  
rock  
shale  
sand  
shale  
rock  
shale  
rock (hard)  
sand (water)

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 5/8"	8 lb. 4"	0	370	3/8 hole	785	645
4"	Std. 3"	370	645			



..... 1/4 Sec. 10 T. 10 N. R. 10 E.  
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 *160* 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 .....

How Tested *Bailer* Length of Test *3 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) .....

Driller's License Number *12*Driller's Signature *Floyd Higgins*

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.

1908

5:09

FILE

At 3:05 O'Clock P.

July 31 1962

J. E. Anderson

County Clerk and Ex-Officio Recorder  
Custer County, Montana

By \_\_\_\_\_ Deputy

File No. ....

T. 10 R. 45

DUPLICATE

County Buster

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 27 1963

Notice of Completion of Groundwater Appropriation  
Without Well

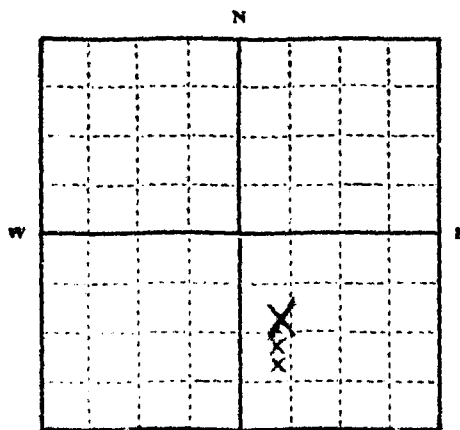
STATE ENGINEER

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 12-28Owner John J. Speer Address Helena, MTContractor (if any) NoneAddress of Contractor NoneDate Started 12-28-63 Date Completed 12-28-63

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

Surface of ground and  
sub-surface water

SE  $\frac{1}{4}$  Sec. 11 T. 10 R. 45

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. It runs

about 2 gallons per minute  
continually during the entire  
year. It is a natural  
spring that is not tapped.

Signature of Owner John J. SpeerDate Dec 28, 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.

File No. \_\_\_\_\_

T. 10 R. 45

DUPLICATE

County Butte

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 27 1963

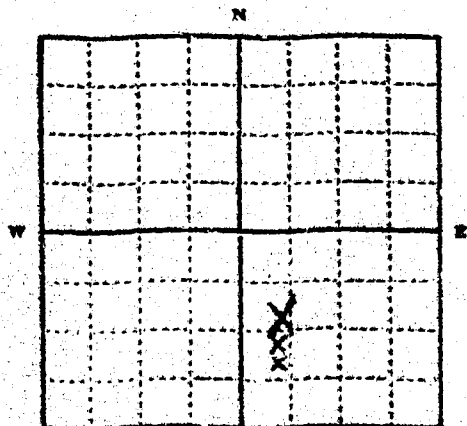
Notice of Completion of Groundwater Appropriation  
Without Well

STATE ENGINEER

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater April 1938Owner Jordan Spears Address Butte City Mont.Contractor (if any) none

Address of Contractor \_\_\_\_\_

Date Started natural spring Date Completed \_\_\_\_\_Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Water comes tosurface of ground and  
runs down creekSE 1/4 Sec 11 T 10 R 45

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. It runsabout 2 gallons per minute  
continually during the entire  
year. As this is a natural  
spring, there is no metering of water.Signature of Owner Jordan SpearsDate Dec 22, 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.



1896

**FILED**

At 2:00 O'Clock P.M.

Dec 23 1963

J. E. [Signature]

County Clerk and Ex-Officio Recorder

Custer County, Montana

By Ruth Root Deputy

## GROUNDWATER INDEX

Page \_\_\_\_ of \_\_\_\_

County CLATSOP Twp. 10 N Rge. 4 E

[illegible]

File No. ....

DUPLICATE

T. 10 R. 46  
County. Butte

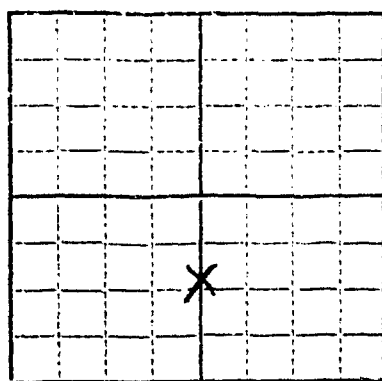
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 27 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Gordon Spears of Crow Rock Rte Miles City  
(Name of Appropriator) (Address) (Town)  
County of Butte State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 6 T. 10 R. 46

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  
and watering of livestock
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been approx 1920
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 1 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 used for irrigation
6. The means of withdrawing such water from the ground and the  
location of each well or other means of withdrawal hand pump  
and small submersible pump
7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater approximately 1920
8. The depth of water table 22 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  
well is approximately 40 feet deep - 24 inches in  
diameter has concrete tile casing
10. The estimated amount of groundwater withdrawn each year 145,000 gallons
11. The log of formations encountered in the drilling of each well if available  
none 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 available

Signature of Owner Gordon Spears

Date Dec 23, 1963

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

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

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

537

FILED

At 2:05 O'Clock P. M.

Dec 23 1963

H. E. Anderson

County Clerk and Ex. Off. Recorder

Ruth Rost

## GROUNDWATER INDEX

Page      of

County CUSTER Twp. 4N Rge. 48E

[illegible]

File No. ....

DUPLICATE

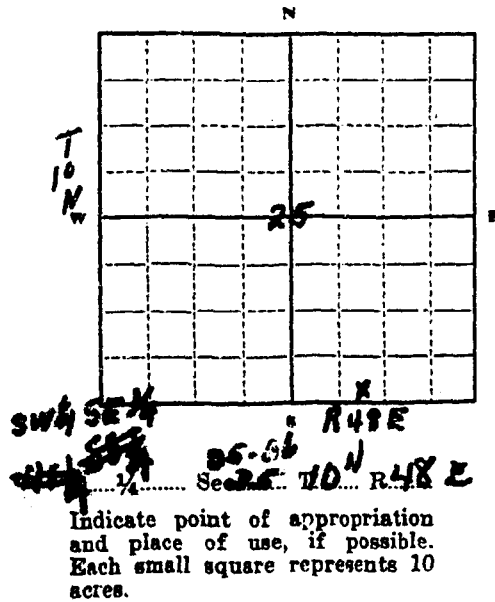
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

T1D N R 48 E  
County CUSTER  
RECEIVED  
DEC 1

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Earl S. Hillier Jr of Box 362 Kinsey  
(Name of Appropriator) (Address)  
County of CUSTER State of MONTANA  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



2. The beneficial use on which the claim is based for living & livestock purposes
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Since 1935
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 8 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 USED FOR IRRIGATION
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal PUMP - 50 FT FROM DWELLING HOUSE

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Before 1935
8. The depth of water table About 40 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 1 well - 350 ft
10. The estimated amount of groundwater withdrawn each year 356,000 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 Earl S. Hillier Jr.  
Date 12/30/63

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

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

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

141

FILED

11 47 8'Clock P  
Dec 30 1963

County Clerk and Recorder  
County of Santa Monica  
California

File No. ....  
DUPLICATE

T. 10 R. 48 E  
County Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

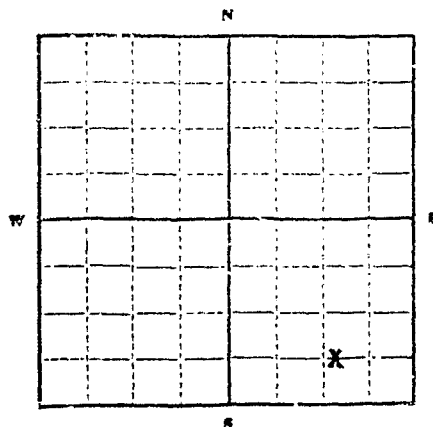
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED

STATE ENGINEER

1. Haughian Livestock Co. of Miles City  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 32 T. 10 R. 48 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.....  
Stock Water
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been.....  
1943 Continual
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute).....  
10 gal.
5. If used for irrigation, give the acreage and description of the lands  
to which water has been applied and name of the owner thereof  
not applicable
6. The means of withdrawing such water from the ground and the  
location of each well or other means of withdrawal.....  
Wind Mill
7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater.....  
1943-1943
8. The depth of water table.....  
230 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.....  
250 Ft.
10. The estimated amount of groundwater withdrawn each year.....  
varying amounts
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

*Haughian Livestock Co.*  
*Ky Susan Haughian Pres*

Date Dec. 30, 1963

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

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

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

140149



106

**FILE**  
# 1107 BY Lock P  
Dec 30 1963  
J. C. Caldwell  
County Clerk and Ex-Officio Recorder  
Coke, Tenn.  
C. Keith King

File No. ....

DUPLICATE

T. 10 N R. 48 E

County Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

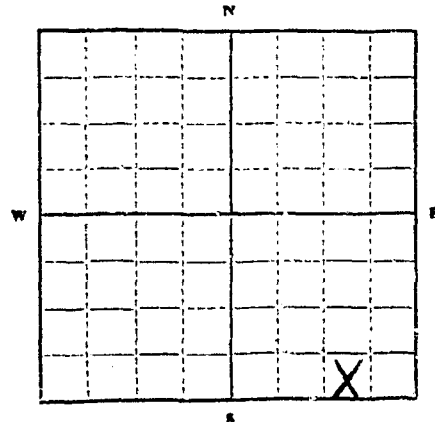
RECEIVED  
DEC 27 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. *LARRY WOLFE*  
*HAROLD WATTS* of *Kinsey Rte Miles City*  
(Name of Appropriator) (Address) (Town)  
County of *CUSTER* State of *MONTANA*  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec 33 T. 10 N R. 48 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  
and LIVESTOCK*
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been. *1939*  
*CONTINUOUS*
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute). *17 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  
*NONE*
6. The means of withdrawing such water from the ground and the  
location of each well or other means of withdrawal.  
*FLOWING WELL WITH 2 PUMPS*
7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater. *1939*
8. The depth of water table. *SURFACE*
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. *2" C.W. 700 FT*
10. The estimated amount of groundwater withdrawn each year. *450,000 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.

Signature of Owner

*Harold Watts*

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.

FILED

At 2:00 O'Clock P.M.

Dec 26 1963

*[Signature]*  
Postmaster and Ex. Officer

*[Signature]*  
Postmaster

File No.

DUPLICATE

T. 10N R. 48E

County CUSTER

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

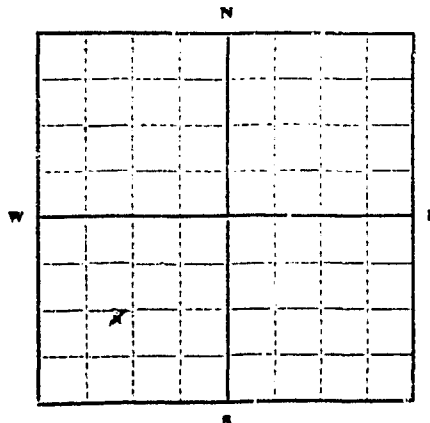
RECEIVED  
DEC 18 1963

Declaration of Vested Groundwater Rights

Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. HENRY WATTS JR + LEONARDO WALKER of KINSEY ROUTE MILES CITY  
(Name of Appropriator) (Address) (Town)  
County of CUSTER State of MONTANA  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE SW 1/4 Sec. 34 T. 10N. R. 48E

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.  
HEADQUARTERS - HOUSEHOLD + LIVESTOCK
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1940 - CONTINUOUS
4. The amount of groundwater claimed (in miner's inches or gallons per minute). 10 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.  
NOT APPLICABLE
6. The means of withdrawing such water from the ground ~~and the location of each well~~ or other means of withdrawal.  
FLOWING WELL WITH BOOSTER PUMP
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. 300 SURFACE
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. ARTESIAN 2" CASING 350 FEET
10. The estimated amount of groundwater withdrawn each year. 400,000 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.  
NONE

Signature of Owner

Leonard Walker  
Henry A. Watts Jr.

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.

FILED  
At 3:55 O'Clock P. M.  
Dec 16 1963  
H. E. Anderson  
County Clerk and Ex-Officio Recorder of  
Custer County, Montana  
Depu

File No. ....

DUPLICATE

T. 10 R. 48 E.

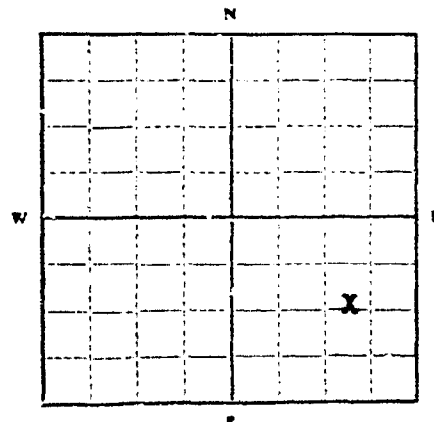
County Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 30 1963

Declaration of Vested Groundwater Rights  
(Under Chapter 237, Montana Session Laws, 1961)

1. Raughian Livestock Co. of Miles City  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 35, T. 10 R. 48 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.....

Stock water

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

1945 continuous

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

10 gal.

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

not applicable

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 with-  
drawal of groundwater.....

1945-1946

8. The depth of water table.....

800 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.....

800 Ft.

10. The estimated amount of groundwater withdrawn each year.....

varying amounts

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

Raughian Livestock Co.  
Signature of Owner By Susan Raughian, Pres.  
Date Dec. 30, 1963

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

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

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

14130

11187

**F I L E**  
It 3114 800000 P. 1  
Dec 20 1963  
H. E. Anderson  
County Clerk and Ex-Officio Recorder  
Custer County, Montana  
Date

File No. ....

T. 10 R. 48

DUPLICATE

County Custer

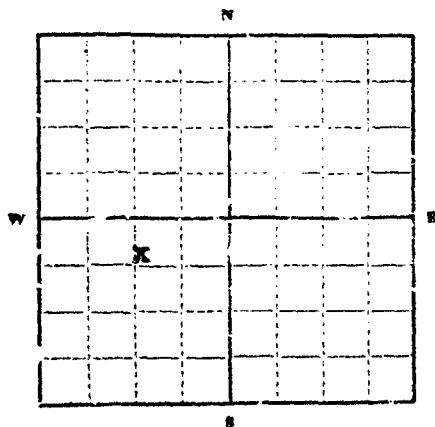
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
JUN 10 1964  
STATE ENGINEER

I, Dale V. Benge, of Kinsey  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec 36 T 10 R 48E

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 and stock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been.  
1940 & continuous.
4. The amount of groundwater claimed (in miner's inches or gallons per minute).  
300 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.  
Not applicable
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.  
flowing well out of a casing
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.  
March, 1940 completed June, 1940.
8. The depth of water table.  
above ground
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.  
4 inch casing & depth 400 feet.
10. The estimated amount of groundwater withdrawn each year.  
72,000 gallons per year.
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 Dale V. Benge

Date 10-30-63

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

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

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

17018



1038

FILED

11 11 23 00 AM '63

DEC 31 1963

*[Signature]*

County Clerk and Ex-Officio Recorder

Custer County, Montana

*[Signature]*

File No. ....

DUPLICATE

T. ... R. ...

County ...

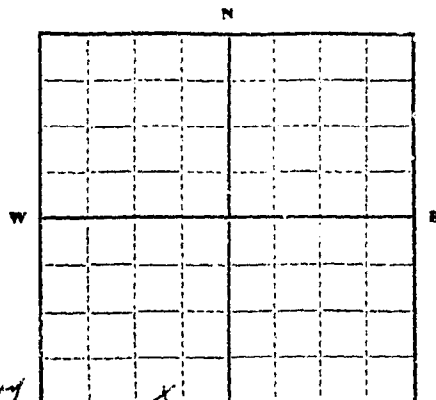
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DE  
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1951)

1. Orthman and Johnson of Kinsey  
(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:



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 and Livestock
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been... 6-1-39  
continuous
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute)... 5 gallons per minute with 3/4 in.  
pipe
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  
only on lawns 1 acre, around houses  
and garden
6. The means of withdrawing such water from the ground and the  
location of each well or other means of withdrawal...  
Flowing

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater... 4-1-39 6-1-39
8. The depth of water table... Surface
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other  
works for the withdrawal of groundwater... 4 inch steel casing, Depth 350 feet.
10. The estimated amount of groundwater withdrawn each year... 200,000 gallons approx.
11. The log of formations encountered in the drilling of each well if available...  
None 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 available

Signature of Owner

Date 12-30-63

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

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

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

14083

140

FILED  
11 14 46 010600 P  
Dec 30 1963  
J. C. Anderson  
County Clerk and Ex-Officio Recorder of  
Custer County, Montana  
19 \_\_\_\_\_

File No. ....  
DUPLICATE

T. 10N. R. 48E  
County Custer

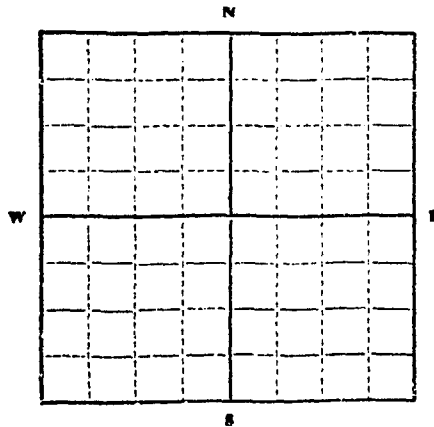
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 29 1963  
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Edwin Meidinger of Kinsey  
(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:



NW 1/4 Sec 36 T10N R48E

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

2. The beneficial use on which the claim is based  
Domestic & livestock
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been  
Daily use since drilled about 1939
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 4 gallons per minute
5. If used for irrigation, give the acreage and description of the lands  
to which water has been applied and name of the owner thereof  
Not Applicable -
6. The means of withdrawing such water from the ground and the  
location of each well or other means of withdrawal  
Flowing

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater about 1939
8. The depth of water table Approx 375 feet - depth of well
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 located on Unit #74 and serves Units #74 and  
#72 - Kinsey Flats Project
10. The estimated amount of groundwater withdrawn each year 200,000 gallons
11. The log of formations encountered in the drilling of each well if available  
None Known - Geo. Haskins, Miles City, Driller
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including  
reference to book and page of any county record

Signature of Owner Edwin Meidinger  
Date 12-19-63

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.

49

FILED

At 3:45 O'Clock P.M.

of Dec. 1918/3

*[Signature]*

County Clerk and Ex-Officio Recorder of

Custer County, Montana

*[Signature]*

Deputy

File No. ....

DUPLICATE

T. 10N. R. 48E

County. CUSTER

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

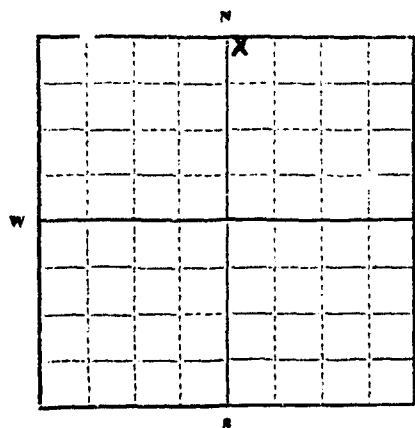
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED

STATE ENGINEER

1. ELIZABETH SCHLEIKER of 16 N. MONTANA 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:



NW 1/4 Sec 36 T. 10N. R. 48E

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

3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been..... 1942

4. The amount of groundwater claimed (in miner's inches or gallons  
per minute)..... 1.5 GAL 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  
NONE

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

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater.....

8. The depth of water table..... FLOWING

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other  
works for the withdrawal of groundwater..... 4 INCH AT TOP - 2 1/2" CASED TO  
350 FEET

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

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including  
reference to book and page of any county record..... THIS WELL IS SHARED BY RUSSELL  
AND MANN. FROM UNDERGROUND RIGHT TO USE WATER SHARED EQUALLY  
BY SUE AND MANN

Signature of Owner.....

Date 12-30-63

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

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

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

44097

1154

FILED

At 2:10 O'Clock P.M.

Dec 30 1963

*[Signature]*

County Clerk and Ex. Officer Recorder of

Curie County, Idaho

Deputy

## GROUNDWATER INDEX

Page \_\_\_\_ of \_\_\_\_

County CLUSTERTwp. 10NRge. 49E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
1	JENNY, WALTER	GW-2	35185	
1	JENNY, WALTER E. & VERGENIA H.	GW-4	2542	
1	JENNY, WALTER E. & VERGINIA H.	GW-4	2593	
2	BROWN, DENNIS	GW-2	31591	
3	HAUGHIAN LIVESTOCK CO.	GW-4	11107	
3	WATTS, HOMER J.	GW-4	11147	
10	WOOD, T. Z.	GW-4	11235	
11	McAULAY, R. J.	GW-2	18540	
11	WATTS, HOMER J.	GW-4	11146	
13	HAUGHIAN LIVESTOCK CO.	GW-4	11108	
15	<del>DIAMOND RING RANCH</del>	<del>GW-4</del>	<del>33974</del>	
16	GRIEVE, W. H.	GW-4	9558	
17	HAUGHIAN LIVESTOCK CO.	GW-4	11188	
21	CAMERON, CHRIS.	GW-4	11215	
21	HOFER, EMIL & MARY	GW-4	11143	
22	GRIEVE, MARGARET BEND	GW-4	9544	
23	GRIEVE, W. H.	GW-4	9560	
24	HAUGHIAN LIVESTOCK CO.	GW-4	11105	
25	GRIEVE, W. H.	GW-4	9551	
26	DIAMOND RING RANCH	GW-2	14520	
26	GRIEVE, W. H.	GW-4	9549	
28	BIRKHOFF, WILLIAM OR EMMA	WATER WELL LOG	189215	
28	DIAMOND RING RANCH	GW-4	9556	
29	NORTHERN PACIFIC RAILWAY CO.	GW-4	10293	
30	LEISCHNER, EMIL	GW-4	11244	
30	WEYERBACHER, RALPH R.	GW-4	11012	
30	WEYERBACHER, RALPH R.	GW-4	11013	
31	KALE, ELMER V.	GW-4	10948	
31	LEDBETTER, PAUL I.	GW-4	11126	
31	MANN, RUSSELL	GW-4	11104	
31	MEZDINGER, EDWIN	GW-4	10840	
32	BUFFALO RAPIDS PROJECT	GW-4	85033	WAS FILED IN PRAIRIE CO
32	UNITED STATES (BUREAU OF RECL.)	GW-4	10859	
33	BIRKHOFF, WILLIAM OR EMMA	WATER WELL LOG	189216	
33	DIAMOND RING RANCH	GW-4	9546	
35	GRIEVE, W. H.	GW-4	9550	
35	DIAMOND RING RANCH	GW-4	33973	ISSUED IN PRAIRIE CO
35	<del>DIAMOND RING RANCH</del>	<del>GW-4</del>	<del>33974</del>	



GV

File No.

DUPLICATE

T. 10 R. 49

County, BUTLER

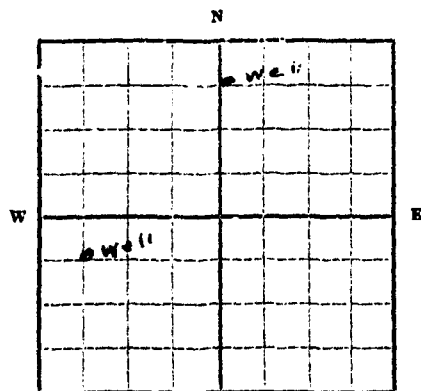
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED

**Declaration of Vested Groundwater Rights**  
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Virginia H. Jerny and Walter E. Jerny, of P. O. Box 301, Miles City, Montana  
(Name of Appropriator) (Address) (Town)  
County of Butte State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 1 T. 10 R. 49  
SW 1/4 Sec. 1 T. 10 R. 49

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

2. The beneficial use on which the claim is based  
*domestic and stock water*
3. Date or approximate date of earliest beneficial use; and how continuous the use has been *approximately 1949*  
*Water has been used continuously since then*
4. The amount of groundwater claimed (in miner's inches or gallons per minute) *14 gallons per minute*
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof *not applicable*
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal *Well on NE 1/4 flows and the one on the SW 1/4 has an electric jet pump*
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater *Well on SW 1/4 completed June 1, 1948*  
*Well on NE 1/4 completed approximately same time*
8. The depth of water table *approximately 326 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 *Well on SW 1/4 has 6 in casing 61 ft down and 328 ft 2 in casing Total depth 392 ft*  
*Record not available on well on NE 1/4*
10. The estimated amount of groundwater withdrawn each year *4,300,000 gallons*
11. The log of formations encountered in the drilling of each well if available *See attached log for well in SW 1/4. None available for well on NE 1/4*
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 *Virginia H. Jerny*  
Date *October 29, 1961*

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.

1013

**SECRET**

Dec 20 1961

NE Anderson

County Clerk and Ex-Officio Recorder:

Butler County, Montana

Rock Rock (Depot)

## Deputy

**Never**

**Buell-Edlund Drilling Company**  
Miles City, Montana

Date of Completion  
1-48

**Location**

5

Township

**Frage**

**Caring**

**Sire**

**Amnt**

15

# Wen 2 **Buell-Edlund Drilling Company** Miles City, Montana

Client John Cosgrove

Address Zero, Mont.

Date of Completion

Log			6-1-48
0 ft. to 47 ft.		Sand + Gravel	Location
47 ft. to 96 ft.		Blue Gray Shale	
96 ft. to 98 ft.		Limestone	Sec.
98 ft. to 112 ft.		Sandy Shale	Township
112 ft. to 118 ft.		Coal	Range
118 ft. to 152 ft.		Sandy Shale	Casing
152 ft. to 156 ft.		Hard Sandrock	Size 6"
156 ft. to 159 ft.		Limestone	Amt. 61'
159 ft. to 167 ft.		Sandy Shale	Size 3"
167 ft. to 190 ft.		Gray Shale	Amt. 387'
190 ft. to 208 ft.		Sandy Shale	Pump Pipe
208 ft. to 254 ft.		Blue Shale	Size
254 ft. to 257 ft.		Limestone	Amt.
257 ft. to 293 ft.		Gray Shale	Pump Rod
293 ft. to 305 ft.		Coal	
305 ft. to 326 ft.		Sandy Shale	Cylinder
326 ft. to 357 ft.		Sand	Working Level
357 ft. to 361 ft.		Limestone	
361 ft. to 396 ft.		Sand + Shale Stringers	
396 ft. to 397 ft.		Limestone	Amt. Per Min.
ft. to ft.			- 194'
ft. to ft.			Remarks:
ft. to ft.			84' - 2 pipe
ft. to ft.			Per instruction
ft. to ft.			
ft. to ft.			
ft. to ft.			
Driller	L. W. Edlund		
Helper	T. W. Buell - E. A. Hyde		

35185

County Garfield

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 Robert Leroy

Address 1/2 mi. N. of

Date well started 11/15/72

completed 12/1/72

For Administrator's Use

File 35185

Jan 8, 1973

12:20 P.M.

GW 1

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Rotary

(Chain drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

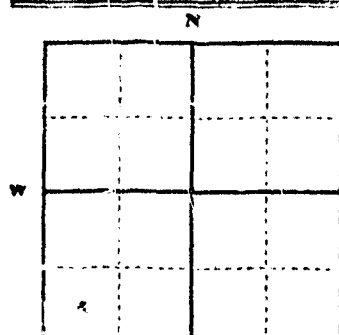
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

\*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS			
				Kind Size	From (Feet)	To (Feet)	
8"	6" 35 15.75	0	20	R	0	2	E
5 7/8"	2" 30 3.7"	0	635	holes 3/8"	490 551 593	530 572 635	



Static water level flow ft.\*  
Pumping water level flow ft.\*  
at 12 gallons per minute,  
measured 24 hours after pumping  
began.

\*Measured from ground level.

Well developed by open flow

for 3 1/2 hours.

Power          Pump          HP

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

Well cemented at 150' with  
11 sacks of cement.

SW 1/4 SW 1/4 Sec. 1

T. 10 N. R. 42 E.

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

Driller's Signature John E. Johnson

Driller's Address John 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	Gravel
10	20	Gravel & Brown Silty
20	30	Silty Clay
30	35	Coal
35	45	Sandy Clay
45	55	Sandy Sand
55	95	Sandy Clay with streaks of Coal
95	115	Blue Sand
115	135	Dark Brown Clay
135	155	Sandstone & Clay (about 150' to 154')
155	175	Sandstone
175	200	Clay and streaks of Sandstone and coal
200	230	Sandstone
230	240	Coal
240	290	Blue Clay with streaks of Rock
290	340	Red and Brown Clay
340	390	Sandstone & Sand with streaks of Clay
390	495	Clay & Sand
495	503	Rock
503	635	Red sand with streaks of Sandstone and Clay

335

Show exact depth of bottom

THIS FORM IS TO BE REVISED AND  
REPRINTED BY THE STATE PUBLISHING COMPANY

52,175