

17520

State of Montana, }
County of Fergus. } ss.

COPY

Filed..... DEC 5 1963 19.....

at 10:00 o'clock A. M.

#200 lb

MAY RATHBUN
County Clerk and Recorder

RECEIVED

File No.

T. 20 N. R. 18 E

DUPLICATE

SEP 24 1972

County DeWitt

LOG MONTANA DEPARTMENT OF NATURAL RESOURCES

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well DEVELOPED AFTER JANUARY 1, 1962

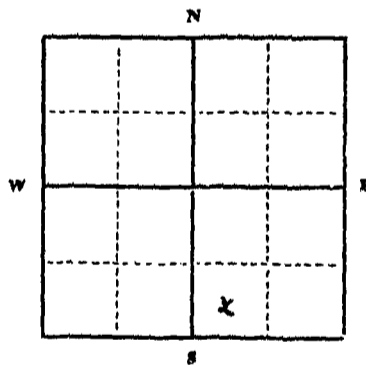
(Under Chapter 287 Montana Session Laws, 1961, as amended)

Table with 2 columns: Depth (Elev. above sea level) and Lithology. Rows include Top of Ground, Topsoil, Clay Hard-sandstone, Hard sandstone, Sandy shale, Sandstone, Hard shale, rock streaks, Sandstone, Shale, sandy sandstone, Shale with rock streaks, Sandstone, Shale, Sandstone, Coal, Sandstone, water.

Owner: Leonard Brooks, Address: Suffolk, Montana. Driller: George O. Singley, Address: Lewistown, Montana. Date of Notice of appropriation of groundwater: None. Date well started: Nov. 25, 1969. Date completed: Dec. 5, 1969. Type of well: Drilled. Equipment used: Rotary. 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.

Table with columns: Size of Drilled Hole, Size and Weight of Casing, From (Feet), To (Feet), PERFORATIONS (Kind Size, From (Feet), To (Feet)).



Static Water Level for non-flowing well: 140 feet. Shut-in Pressure for Flowing Well: None. Pumping Water Level: 200 feet at 10 gal. per minute. Discharge in gal. per min. of flowing well: None. How Tested: by lining. Length of Test: 1 hr. Remarks: (Gravel packing, cementing, packers, type of shutoff)

Sec. 14 Sec. 25 T. 20 R. 18 E. Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Doc. No. 48039. Filed for record this 27 day of Sept. A. D. 1972, at 4:00 o'clock P. M.

Show exact depth of bottom.

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

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

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

19 Driller's License Number

Driller's Signature

51,489

48039 COPY

State of Montana)
County of Fergus) ss:

Filed SEP 27 1972

at 4:00 o'clock P M.

May Rether
County Clerk and Recorder

Fee Paid \$2.00

File No. 17153

T. 20 R. 18E

DUPLICATE

County Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

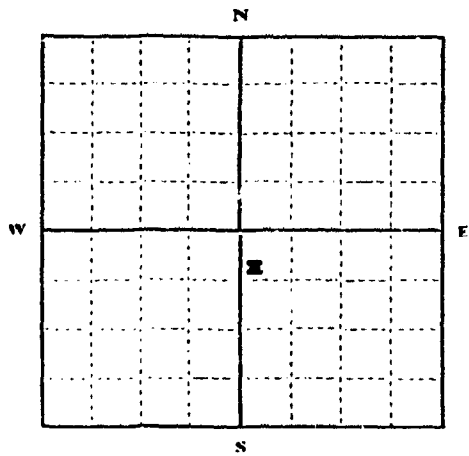
RECEIVED
DEC 30 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. JOHN A. and LEONARD BROOKS, of Suffolk, (Name of Appropriator) (Address) (Town)
County of Fergus State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 15 T. 20 R. 18E

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 livestock water.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been January 24, 1961 and continuous use since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Twelve Gals. 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 3/4 Horse Power
Well - Sec. 15 - Top. 20 - Rgs. 18.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Dec. 15, 1960. Completed January 24, 1961

8. The depth of water table 150 Feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled well, casing 4" inside diameter.
304 Feet Deep.

10. The estimated amount of groundwater withdrawn each year 2,000,000 Gals.

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 known.

Signature of Owner John A. Brooks, Leonard Brooks
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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

17153 COPY

State of Montana, } ss.
County of _____

Filed _____ DEC. 27 1963 _____ 19
at 3:20 o'clock P.M.

May Rattler
County Clerk and Recorder

* 2nd pt

3 20

File No. 16452

T. 20 R. 18

DUPLICATE

County Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 27 1963

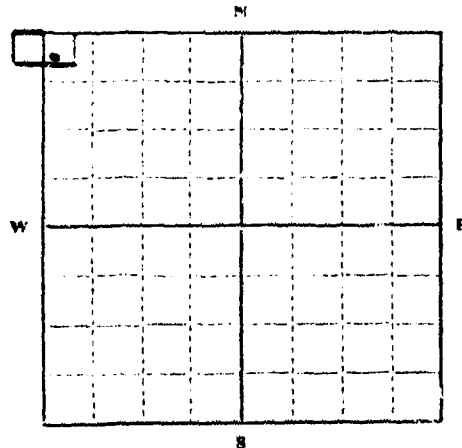
Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

Neil Haight, Grace Virginia Peterson and

1. Katherine Haight Day, co-tenants of Hilger
(Name of Appropriator) (Address) (Town)

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



SW 1/4 NW Sec. 20 T 20 R 18
NE 1/4 NE Sec. 29 T 20 R 18
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, household use, irrigation.**
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **Approximately 1920 use has been continuous.**
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute): **20 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: **Approximately 5 acres consisting of household, garden, and shelterbelt at farmstead.**
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: **Electrically driven cylinder deep well pump.**
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **This was done by father of declarers - believed to be about 1920**
- 8. The depth of water table: **Not known.**
- 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: **Believe the well to be approximately 130 ft. deep - drilled well, 8" casing.**
- 10. The estimated amount of groundwater withdrawn each year: **600,000 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: *Neil Haight*

Date: 3-15-63

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.

1540

16452

COPY

State of Montana,
County of Fergus.

Filed NOV 26 1963 19

at 2:15 o'clock P.M.

Way R. Keith
County Clerk and Recorder

\$2.00 - ph

File No. 16451

T. 20 R. 18

DUPLICATE

County Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 27 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

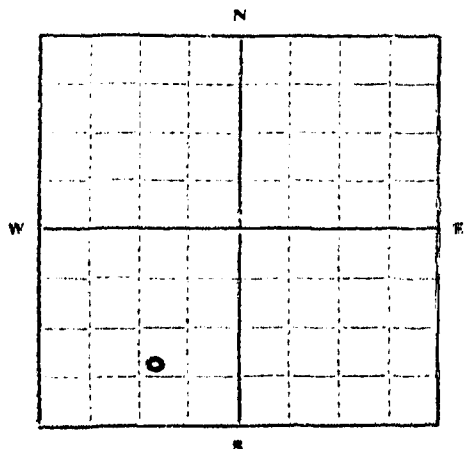
(Under Chapter 237, Montana Session Laws, 1961)

Neil Haight, Grace Virginia Peterson and

1. Katherine Haight Day, co-tenants of Hilger
(Name of Appropriator) (Address) (Town)

County of Fergus State of Montana

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



SE 1/4 SW Sec. 21 T 20 R 18

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
November 1961

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
15 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
shallow well pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
Commenced and completed during October & November, 1961.

8. The depth of water table
10 feet approximately

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.
Depth - 17 feet. Dig well cased with 24" pipe.

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

11. The log of formations encountered in the drilling of each well if available
No log.

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
Neil Haight

Date 5-15-63

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.

75.9

16451

COPY

State of Montana, } ss
County of Lewis. }

Filed NOV 26 1963 19
at 2:15 o'clock P. M.
May Rathen
County Clerk and Recorder

*200 pt.

File No.

T. 20N R. 18E 24

DUPLICATE

County Jefferson

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.....)

1	Topsoil
10	Sand Gravel
50	Shale
75	Sandstone Shaley
110	Shale
125	Sandy shale
180	White sandy shale
215	Sandy shale
245	Sandstone Water Sand
303	Shale
310	Shale Sandy
365	Sandstone, Sandy Shale
380	Sandy Shale
410	Shale

Owner..... Ollie White..... Address..... Sulfolk, Montana.....

Driller..... George O. Singley..... Address..... Leviestown, Montana.....

Date of Notice of appropriation of groundwater..... None.....

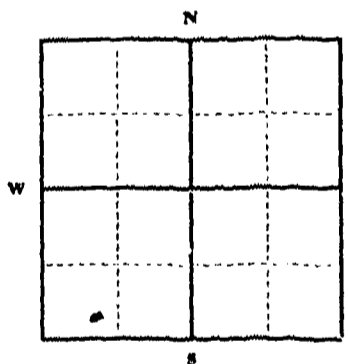
Date well started..... Aug. 25, 1965..... Date completed..... Aug. 28, 1965.....

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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5-5/8"		0	245			
4-3/4"		245	410			
	4 1/2" ID 4 1/2" OD 6.7#	above ground 1'	247			



Static Water Level for non-flowing well 90 feet.

Shut-in Pressure for Flowing Well..... None.....

Pumping Water Level..... 190 feet at..... 5 gal. per minute.

Discharge in gal. per min. of flowing well None.....

How Tested..... Sealed.....

Length of Test..... 3 hr......

Remarks: (Gravel packing, cementing, packers, type of shutoff)..... Sealed with shoe. Hole filled with gravel.....

SE 1/4 SW 1/4 SW 1/4 Sec. 24 T. 20 N. 18
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

Driller's License Number

George O. Singley
Driller's Signature

39657

24094

COPY

State of Montana, }
County of Fergus } ss

Filed OCT 1 1965 19

at 11:10 o'clock P.M.

May Rathbone
County Clerk and Recorder

200 pd.

STATE WATER CONSERVATION BOARD

OCT 4 1965

_____	McDonnell
_____	Butterfield
_____	Coyle
_____	Barthelme
_____	St. Ives
_____	Beckwith

T. 21N R. 18E

County

29

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Herbert H. Haight Address Suffolk

Driller Name forgotten Address

Date Started 1916 Date Completed 1916

Location: Sec. 28 T. 20N R. 18E 1/4 sec. NW 1/4 of NW 1/4

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other:

Casing: 8" casing ft. to 100' ft. Type iron pipe Size 1 3/8"

Casing: depth of ft. to 136' ft. Type well Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations Struck water at 100' - continued

Static water level, for non-flowing well: drilling to 135' through feet.

Shut-in pressure, for flowing well: water bearing gravel. At 136' got in lb./sq. in. on:

different formations and quit drilling (date)

Pumping water level: Water level was not lowered by feet at gal per min.

How tested: Test used, and cannot be

Length of test: performed with equipment I

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

water level raised during
non use. Water unusually
soft for this area.

(over)

GW

File No. 17150

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Approved State Form - State Publishing Co., Helena, Montana - 42234
FEB 27 1964

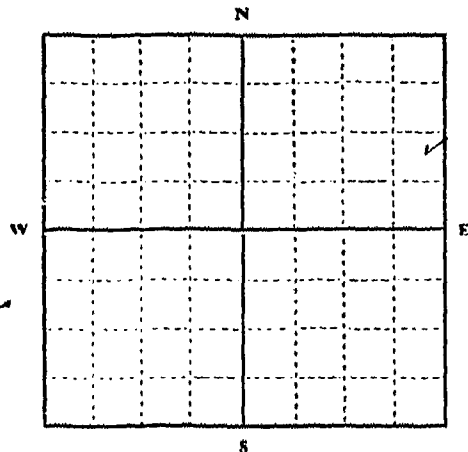
T. 20 R. 18
County...

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

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

1. MILDRED S. AYERS, of DENTON,
(Name of Appropriator) (Address) (Town)
County of FERGUS State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



S.E. 1/4 NE 1/4 Sec. 31 T. 20 R. 18

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 DRINKING WATER FOR LIVESTOCK AND GARDENING AND DWELLING SITE IRRIGATION
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been April 1930 and continuously thereafter
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 gallons
- 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 approximately 2 acres in the description given on plot at left. Mildred S. Ayers
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electrical ~~44~~ centrifugal pump

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater April 1930 to 1954 by manual hand pump. 1954 to present time electrical pump
- 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 4 feet in diameter and 20 feet deep. Brick lined. Hand dug.
- 10. The estimated amount of groundwater withdrawn each year 450,000
- 11. The log of formations encountered in the drilling of each well if available not available
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner Mildred S. Ayers
Date 12/22/63

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

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

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

14380

17150

COPY

State of Indiana }
County of [unclear] }

Filed DEC 27 1963 19

at 2:30 o'clock P. M.

Wm. R. [unclear]
County Clerk and Recorder

BY *200- [unclear]*

GW.

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

32

File No. 17149

T. R.

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

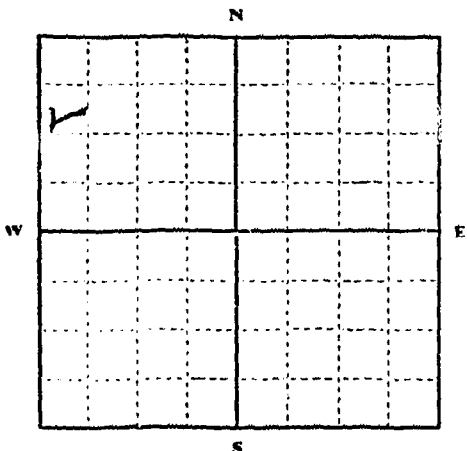
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. MILDRED S. AYERS, of DENTON
(Name of Appropriator) (Address) (Town)

County of FERGUS State of MONTANA

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



N.W. 1/4 Sec 32 T. 20 R. 18

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 DRINKING WATER FOR HUMAN AND LIVESTOCK CONSUMPTION

Date or approximate date of earliest beneficial use; and how continuous the use has been APRIL 1960 and continuously thereafter

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 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 CENTRIFUGAL ELECTRIC PUMP

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater SEPTEMBER 1948 for the present centrifugal electric pumping system. April 1960 to September 1948 the water was withdrawn by manual means.

8. The depth of water table 12 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 4 feet in diameter and 18 feet deep. This well was and is still a hand dug well.

10. The estimated amount of groundwater withdrawn each year 912,500 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 Mildred S. Ayers

Date 12/26/63

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.

14379

17149

COPY.

State of Montana, }
County of Park } ss.

Filed DEC 27 1963 19
at 2:30 o'clock P. M.

Wm. R. Rether
County Clerk and Recorder

200 pl.

32

File No. 16453

T. 20 R. 18

DUPLICATE

County Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECORDED
NOV 27 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

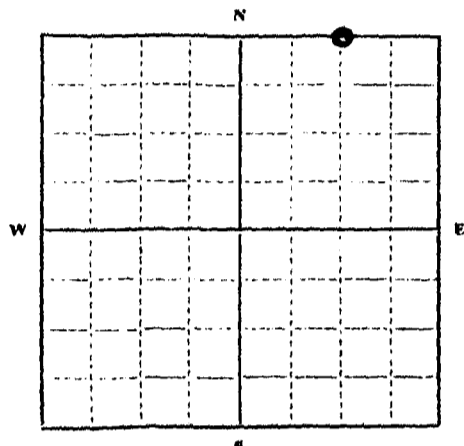
STATE ENGINEER

Neil Haight, Grace Virginia Peterson and

1. Katherine Haight Day, co-tenants of Hilger
(Name of Appropriator) (Address) (Town)

County of Fergus State of Montana

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



Mont. Sec. 32 T20 R18
84/84 Sec. 29 T 20 R 18

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. approximately 1925

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 5 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. not applicable

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. approximately 1925

8. The depth of water table. not known

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. Dam constructed below a natural spring to store water.

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

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 Neil Haight

Date 5-15-63

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.

75411

16453

COPY

State of Montana, } ss.
County of Fergus.

Filed NOV 26 1963 19
at 2:15 o'clock P. M.

May Patton
County Clerk and Recorder

*200-101

File No. **16454**

T. **20** R. **18**

DUPLICATE

County **Fergus**

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

NOV 27 1963

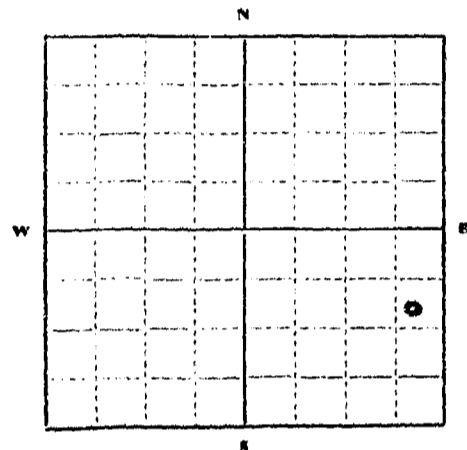
Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

Neil Haight, Grace Virginia co-tenants

1. **Peterson and Katherine Haight Day, /** of **Hilger**
(Name of Appropriator) (Address) (Town)

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



NE 1/4, SE Sec 32, T. 20 R. 18.

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.....
1930
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 applicable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....
not applicable

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

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.....
Excavation approximately 20 ft. diameter - 15 ft. deep.
Area fenced to prevent livestock entering.

10. The estimated amount of groundwater withdrawn each year.....
2,000,000 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

Signature of Owner *Neil Haight*
Neil Haight

Date **5-15-63**

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.

7542

16454

COPY

State of Montana, } ss.
County of Fergus, }

Filed NOV 26 1963 19
at 2:15 o'clock P.M.

Wm. R. Johnson
County Clerk and Recorder

\$2.00
pd

File No. E1(5)

T. 20N R. 18E NPM

DUPLICATE

County Fergus

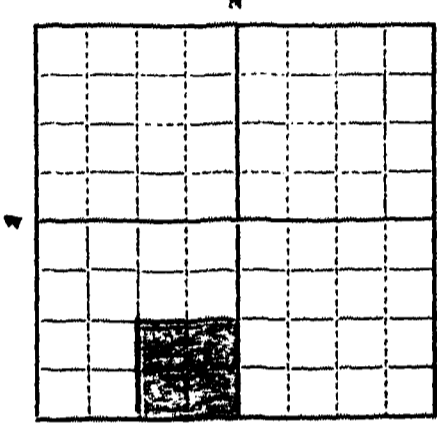
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. United States of America of c/o U. S. Corps of Engineers
Box 1425, Great Falls, Montana
(Name of Appropriator) (Address) (Town)
County of Cascade State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 SW 34 T20N R.18E NPM

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....
29 September 1960
Continuous use

4. The amount of groundwater claimed (in miner's inches or gallons per minute).....
2 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.....
Electrical lift pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....
Started - 25 September 1960
Completed - 29 September 1960

8. The depth of water table.....
356 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.....
Drilled vertical well - 450 feet

10. The estimated amount of groundwater withdrawn each year.....
2680 gallons

11. The log of formations encountered in the drilling of each well if available.....
Sand, Shale, Sandstone, and lignite

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.....

WITNESS:

Oliver E. Matthews

Signature of Owner.....

UNITED STATES OF AMERICA
By John E. Ritchie
John E. Ritchie, ASCE Chief
Great Falls Real Estate Ofc
Date ESCE, Seattle District
10 April 1962

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.

9277

COPY

State of Missouri,
County of Ferguson.

Filed APR 11 1962 19
at 3:50 o'clock P.M.

Wm. R. Nathan
County Clerk and Recorder

82nd pt

File No.

T. 20 N. R. 18 E.

DUPLICATE

County Fergus

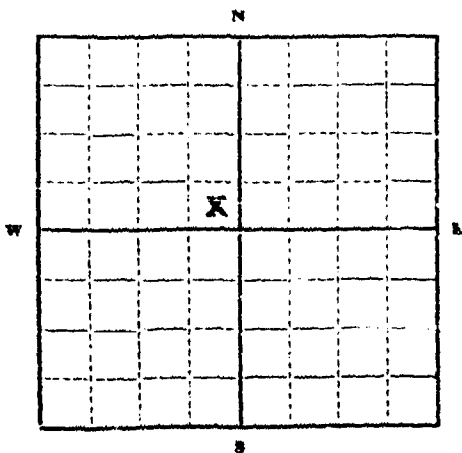
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

JAN 3 1963
ENGINEER

1. JAMES HAMILTON of Hilger
(Name of Appropriator) (Address) (Town)
County of Fergus State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. T. 20N R. 18E

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, general farmyard water and lawn irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. continuous use since about 1930

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. None

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. one well five hundred feet (500') in diameter; water is withdrawn by electrical pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. approximately 1930

8. The depth of water table. four feet under 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. hand dug well twelve feet (12') deep, four feet (4') square

10. The estimated amount of groundwater withdrawn each year. 150,000 gallons

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. none available

This Declaration was presented in my office for filing on the 31st day of December 1963, and was returned because of no signatures appearing on carbon copies. Signature of Owner James Hamilton
Said declaration was filed in good faith and is herewith entered on the books as of December 31, 1963. My Rathbone Date December 31, 1963
County Clerk & Recorder

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.

27005

17823 1/2

COPY

State of Montana, } ss.
County of Fergus, }

Filed DEC 31 1963 19

at 5:00 o'clock P.M.

Wm. R. Rother
County Clerk and Recorder

Wm. R. Rother

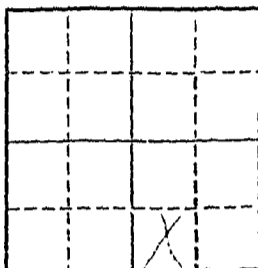
T. 20N R. 19E 11
County Fergus

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER



Owner Milton Latcher Address Winifred, Montana
Driller George A. Stanley Address Lewistown, Montana
Date Started August 1, 1960 Date Completed August 5, 1960
Location: Sec. 1 T. 20N R. 19E 1/4 sec. SWSE

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: _____

Above ground
Casing: 1 ft. to 135 ft. Type S.A.S. Size 3/16 in.
Casing: 136 ft. to 240 ft. Type S.A.S. Size 4 1/2 in.
Casing: _____ ft. to _____ ft. Type _____ Size _____
Perforated or Screened: Ft. 175 to ft. 186 Ft. 195 to ft. 210
230 237
Type of screen or perforations slots

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

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

Pumping water level 150 feet at 6 gal. per min.

How tested: Boiling

Length of test 2 hrs.

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

Well plugged about 2 hours due to sludge.

(over)

File No. 12004

DUPLICATE

Butcher
R. W. B. & Co.
T. L. APR 1962
County: Hargreaves

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

- Top of Ground (Elev. above sea level)
- 0 126 Bear Paw Shale
 - 126 130 Top of Judith River
 - 130 145 White rock
 - 145 150 Brown rock hard
 - 150 155 Hard white silicate
 - 155 170 White shale
 - 170 180 Dark grey shale
 - 180 186 Shale and rock
 - 186 192 White rock
 - 192 195 Brown shale
 - 195 210 White rock and shale
 - 210 225 Coal shale
 - 225 230 Coal Sandstone Water
 - 230 237 Sandstone
 - 237 240 Shale
 - 240 250 Coal shale
 - 250 267 White shale
 - 267 273 Hard white silicate
 - 273 310 White rock
 - 310 340 Sandstone Water
 - 340 405 Soft shale
 - 405 406 Hard rock
 - 406 455 Shale
 - 455 457 Hard rock
 - 457 463 Soft sandstone Water
 - 463 475 Rock
 - 475 480 Soft sandstone Water
 - 480 494 Rock
 - 494 516 Soft sandstone Water
- (Log continued on back)

Owner: Milton Butcher Address: Winifred, Montana

Driller: George O. Singley Address: Levistown, Montana

Date of Notice of Appropriation of Groundwater: None

Deepened: Aug. 1, 1960 Date Completed: Aug. 5, 1960

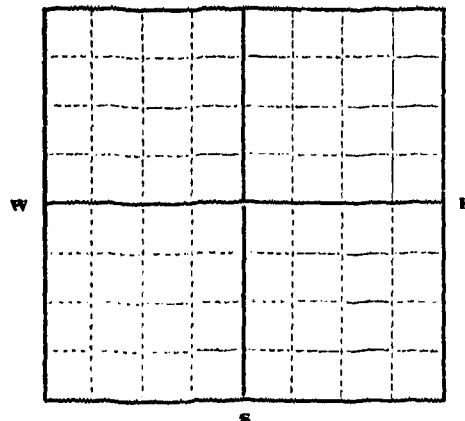
Date well started: Nov. 1, 1962 Date Completed: Nov. 21, 1962

Type of well: Drilled Equipment Use: 3" Tool & 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.

Depth (Feet)	Stratum	Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
						Kind Size	From (Feet)	To (Feet)
318'-340'	Sandstone Water	6"	5-3/16"	1	135			
405	Soft shale			135	240			
406	Hard rock	5 3/16"		240	568			
455	Shale			above ground	568	Slots 3"	455	568
457	Hard rock							
463	Soft sandstone Water		2" heavy tubing 5"					
475	Rock							
480	Soft sandstone Water							
494	Rock							
516	Soft sandstone Water							



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

Shut-in Pressure for Flowing Well.....20'

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

Discharge in gal. per min. of flowing well.....4

How Tested: Measuring.....Length of Test.....2 hr.

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

Sealed with anchor packer at 455'

#19
Driller's License Number

George O. Singley
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.

12004

COPY

516	520	Hard rock
520	532	Soft sandstone water
532	540	Hard siliceous sandstone
540	568	Soft sandstone water

State of Montana }
County of Fergus } ss.

Filed NOV 23 1962 19

at 2:05 o'clock P.M.

Wm. R. Johnson
County Clerk and Recorder

320 pd

516 520 Hard rock
520 532 Soft sandstone water
532 540 Hard siliceous sandstone
540 568 Soft sandstone water

12004

COPI

State of Missouri
County of Franklin

Filed NOV 23 1962

at 2:05 o'clock P.M.
by *Wm. G. [Signature]*
County Clerk and Recorder

W. G. [Signature]

GW 2

File No. 21508

DUPLICATE

RECEIVED
DEC 28 1964

Approved Stock Form—State Publishing Co., Helena, Montana—3456

T. 20^N R. 19^E M

County Jagsus

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

RECEIVED
DEC 21 1964

Notice of Completion of Groundwater Appropriation by Means of Well ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

Owner Erwin Smith Address Winifred, Mont.

Driller MUNSON Drilling Co. Address Grass Range, Mont.

Date of Notice of Appropriation of Groundwater NOT applicable

Date well started Dec. 9-64 Date Completed Dec. 15-64

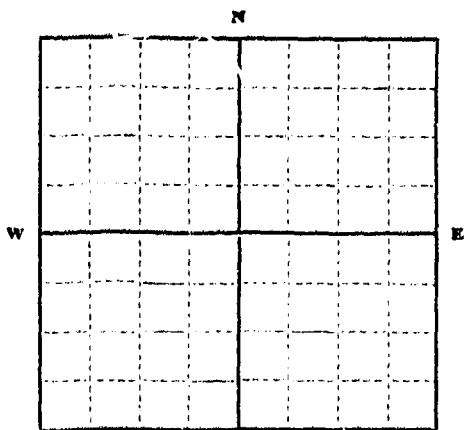
Type of well drilled Equipment Used ROTARY
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

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.

0
3 Top of Ground
19 Surface Soil
25 Gravel
59 Shale
161 Shale + sandy shale
180 Carbonaceous
180 Bentonitic sand
228 Bentonitic sand - sand str.
243 - COAL - BLACK
380 Sandy layers Bentonitic sand
447 Green Shales
Bentonitic sand
500 Bentonitic sand
566 Hard stalks of sand + shells
572 Hard cap rock
581 Lite grey sand fair porosity
ARTESIAN flow
600 Brown Bentonite to shale T.O.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
9"	7-21#	0	25			
		0	25	Cemented		
5 5/8"	4 1/2 O.D. 11#	25	600	Cemented	0-50'	
		0	515	zone packers	515 and	
				250' and 50'		
		515	600	Open hole		



SE 1/4 NE 1/4 Sec. 14 T. 20 R. 19
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 _____ feet.

Shut-in Pressure for Flowing Well 15#

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

Discharge in gal. per min. of flowing well 1 1/2 /min.

How Tested _____ Length of Test Continuous

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) Surface

Casing of 25' cemented - long
String cemented 0-50 - core type
packers @ 50'-250'-515'

26
Driller's License Number

B.M. Munson
Driller's Signature

Section No. ?

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.

38782

21588

COPY

State of Montana, }
County of Fergus. }

Filed DEC 18 1964 19

at 2:45 o'clock P. M.

Wm. C. Johnson
County Clerk and Recorder

2nd pt

Top of Ground Dicket _____

0 7 Surface
 21 Elev. above sea level _____
 199 Shale
 266 Bentonite Sand
 Strata of Karstous
 259 Shaley Coal
 322 Bentonite Sand
 Sandy Sayers
 324 Hard Cap rock
 336 Sand - Brownish to grey
 2 gal./min displaced
 on float test
 469 Bentonite Sand
 Shell Sayers
 488 Green Shale
 Bentonite Sand
 584 Hard Shale Sand
 Shell layers
 588 Hard cap rock
 617 Lite grayish Sand
 Lite - poor porosity
 1/2 gal./min flow
 630 Bentonite Sand
 Shaley Strata
 652 Brown Bentonite
 Hard Shell Strata
 Shale. T.D.

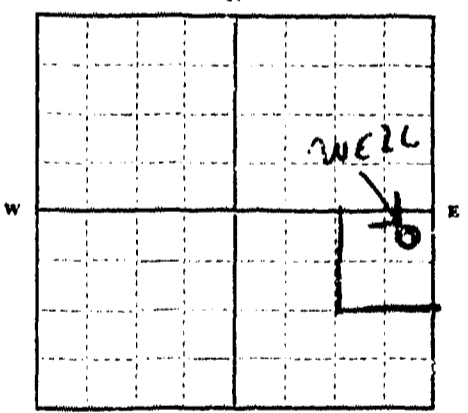
Notice of Completion of Groundwater Appropriation by Means of Well
 (Under Chapter 237, Montana Session Laws, 1961)

Owner: **Francis P. Wherley** address **Winifred, Mont.**
 Driller: **Menson, B.G.C.** address **Great Range, Mont.**
 Date of Notice of Appropriation of Groundwater: **Not applicable**
 Date well started: **Jan. 2 - 1965** Date Completed: **Jan. 9 - 1965**
 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
9"	7" O.D. 22#	0	23	Cemented on surface casing
5 1/2"	4 1/2" O.D. 11#	23	652	
		0	590	Expanding packer @ 590' and cemented @ 12 she + chloride



NE 1/4 SE 4 Sec. 14 T. 20 R. 19
 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 _____ feet.
 Shut-in Pressure for Flowing Well **11 #**
 Pumping Water Level _____ feet at _____ gal. per minute.
 Discharge in gal. per min. of flowing well **1/2 gal./min.**
 How Tested **Flow** Length of Test **Cont.**

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) **Expanding packer @ 590' cemented with twelve sacks of Type II + chloride surface casing cemented from top to bottom**

Driller's License Number **26**
B.M. Menson
 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.

40819

25434

COPY

State of Montana, }
County of Fergus } ss.

Filed FEB 9 1966 19
at 3:20 o'clock P. M.

May Jackson
County Clerk and Recorder

20 p

GW - 17020
File No.

Approved Stock Form—State Publishing Co., Helena, Montana—4234

T R

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

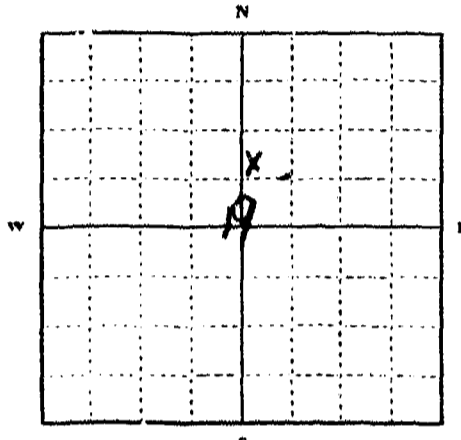
RECEIVED
DEC 26 1963

STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Walter Arthur, of Suffolk
(Name of Appropriator) (Address) (Town)
County of Fergus 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. Stock House water and house water
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1942
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1 1/2 min flow 130-150 gpm for House and lawn
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not applicable
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal ELECTRIC

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
- 8. The depth of water table Not known
- 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 Yield 8 to 10 ft across, 36 ft deep
- 10. The estimated amount of groundwater withdrawn each year 30,000 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 Not applicable

Signature of Owner Walter Arthur
Date Dec 13, 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.

17020

COPY

State of Montana, } ss.
County of Park, }
Filed 10 23 1963 1963
at 3:50 o'clock P.M.
May Peterson
County Clerk and Recorder
\$2.00 - pd.

GW

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

File No. 17021

T. 22 R. 11

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

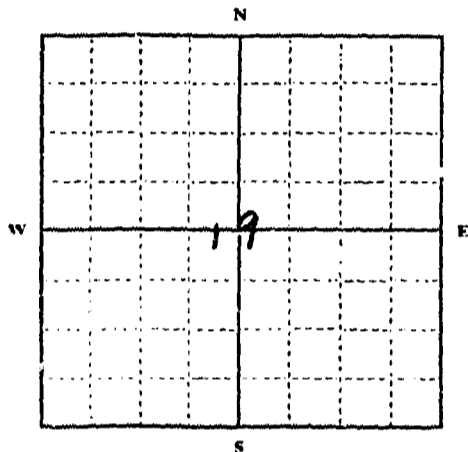
RECEIVED
DEC 26 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Walter Arthur, of Suffolk
(Name of Appropriator) (Address) (Town)

County of Fergus State of
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

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Plenty for Stock Water and Garden

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 1/2 acre and just garden

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric 1/2 Pump

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

8. The depth of water table. Not known

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 8 to 10 ft round 28 ft deep
explorer type

10. The estimated amount of groundwater withdrawn each year 112,000 Gallons

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

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.

13070

17021

COPY

State of Montana }
County of Lewis & Clark }

Filed DEC 23 1963 19
at 2:50 o'clock P.M.
Mar. Rathbun
County Clerk and Recorder

*200 ph.

File No. 17022

T. 20 R. 17

DUPLICATE

County RECEIVED
DEC 26 1963

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

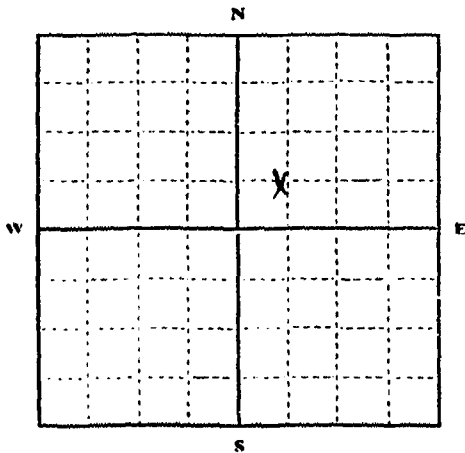
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Water Arthur, of Suffolk
(Name of Appropriator) (Address) (Town)

County of Fergus State of Montana
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 Stock Water

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Plenty of water for head of cattle

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 1/2 water pump electric

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

8. The depth of water table Not known

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 8 to 10 ft Round Cylindrical type

10. The estimated amount of groundwater withdrawn each year 250,000 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 NOT APPLICABLE

Signature of Owner Water, Arthur
Date 12/26/63

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. 12081

17022

COPY

State of Montana }
County of Fergus } ss.

Filed DEC 23 1963 19
at 3:50 o'clock P.M.

Ernest Rothman
County Clerk and Recorder

2-10-63

File No.

COMMISSION BOARD

T. 20 N. R. 19 E. 19

DUPLICATE

DEC 29 1966

County Fergus

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)

Owner Charlie Philp Address Sulfolk, Montana

Driller George O. Singley Address Lewistown, Mont.

Date of Notice of appropriation of groundwater None

Date well started Nov. 28, 1966 Date completed Dec. 5, 1966

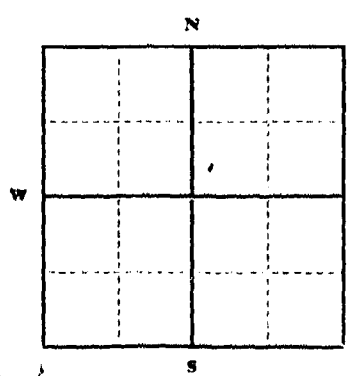
Type of well Drilled Equipment used Rotary
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

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)	LOG
0	1 Topsoil
1	19 Variated shale
19	20 Rock some water
20	65 Variated shale
65	72 Sandstone
72	77 Shale
77	85 Hard brown rock
85	97 Grey shale hard
97	98 Hard rock
98	105 Grey white shale
105	140 Dark grey shale
140	141 Hard rock
141	145 White sandstone
145	175 Sandy shale
175	185 Sandstone
185	280 Variated shale sandy
280	270 Sandstone (sm. ant. water)
270	301 Sandy shale
301	305 Hard white rock
305	310 Sandstone, water
310	320 Grey shale
320	330 Sandstone, water
330	335 Brown shale
335	355 Variated shale sandy
355	357 Rock
357	370 Sandstone
370	390 Grey and Brown, Green Variated shale
390	392 Hard rock, iron pirates
392	433 Dark blue sandstone Lots of water

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5-5/8		0	276			
4-3/4	4 1/2 OD AID Plastic casing 2" pipe	276	433			
		1'	295		300	430
		280	433	4x1/2 slots		



Static Water Level for non-flowing well 6" below ground feet

Saut-in Pressure for Flowing Well 0

Pumping Water Level 30 feet at 20 gal. per minute.

Discharge in gal. per min. of flowing well 0

How Tested Air-Bailer and Pump

Length of Test 1 hr

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

.....

.....

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

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

19
Driller's License Number
George Singley
Driller's Signature

41582

28444

COPY

STATE OF MISSISSIPPI
(Office of the Clerk)

Filed DEC 28 1966 19
at 3:05 o'clock P.M.

Mary G. Nathan
County Clerk and Recorder

Joseph

RECEIVED
JUL 30 1958

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. 20 N R. 20 E 12

County Fergus

WATER WELL LOG

			*

Owner Milton Latcher Address Inifred, Montana

Driller George O. Finley Address Lovinstown, Montana

Date Started June 30, 1958 Date Completed July 25, 1958

Location: Sec. 12 T. 20 R. 20 1/4 sec. SE 1/4

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

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other:

Above ground Casing: 2 ft. to 405 ft. Type 3 & 3 Size 4 1/2 ID

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations

Static Water level, for non-flowing well: feet

Shut-in pressure, for flowing well: 40 lb./sq. in. on July 25, 1958 (date)

Pumping water level: feet at gal. per min.

How tested:

Length of test:

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

Cemented in with 15 sacks slurry resistant cement. Sealed with shoe and cemented. Flows 3-3/4 gal. per min.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	2	Trench
2	20	Clay gravel boulders
20	45	Dark grey shale water at 20'
45	52	White sandstone water Top of Judith water
52	58	Grey shale
53	59	brown shale
59	72	White salt pepper sandy rock water
72	75	Hard white silicate
85	115	Sandy rock light colored
115	125	Light colored grey green shale
125	135	Sandstone water
135	175	Light colored shales
175	185	Dark brown shale coal
185	187	Coal
187	192	Light grey sandy water?
192	198	Dark shale sandy
198	210	Grey shale specked with coal
210	405	Layers of shale blue brown white
405	410	Green specked white rock
410	480	White & grey sandstone water at 412'-425' 445-465'
480	482	Shale

State of Montana }
 County of Fergus }

Filed Jul 29 1958
 at 2:35 o'clock P.M.

DORIS L. MANE
 County Clerk and Recorder
 By May Kathleen
 Deputy

-50 f. go.

92667

File No. 39177

T. 20N R. 20E 15

DUPLICATE

MAR 19 1970

County Fergus

LOG

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well DEVELOPED AFTER JANUARY 1, 1962

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

Table with columns for depth (Elev. above sea level) and geological strata. Includes entries like Topsoil, Yellow clay, Bear Paw Shale, Upper Judith River Sands and Shales, Coal, Sandstone, Coal Streaks, Hard Rock, Varlated shale, Sandy shale, Sandstone, Water, Sandstone, Shaly, Sandstone, Water, Hardrock, Sandstone.

Owner: Milton Butcher Address: Hanifred, Montana

Driller: George C. Singley Address: Lewistown, Mont.

Date of Notice of appropriation of groundwater: None

Date well started: Feb. 24, 1969 Date completed: Feb. 27, 1970

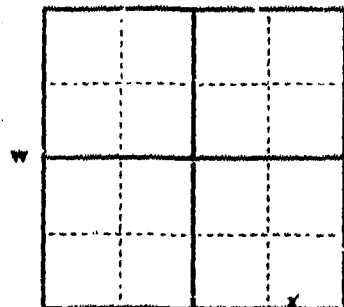
Type of well: Drilled Equipment used: Rotary (Dug, driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic [] Municipal [] Stock [x] 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.

Table with columns: Size of Drilled Hole, Size and Weight of Casing, From (Feet), To (Feet), PERFORATIONS (Incl. Size, From (Feet), To (Feet)). Includes handwritten data for hole sizes 7-7/8, 4-3/4, 4 1/2 and casing sizes 2" 200# test PVC Plastic cemented.

59177 Filed for record this 18 day of March A. D. 1970 at 3:00 o'clock P.M.



SE 1/4 Sec 15 T. 20 R. 20 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well None feet.

Shut-in Pressure for Flowing Well 30

Pumping Water Level None feet at 0 gal. per minute.

Discharge in gal. per min. of flowing well 4

How Tested Measuring

Length of Test 1 hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff) Cemented with 3 sacks cement.

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

19 Driller's License Number

George C. Singley Driller's Signature

46257

39177

COPY

State of Montana }
County of Fergus. }

Filed **MAR 18 1970**

at 3:00 o'clock P.M.

200 pt
Way Pethen
County Clerk and Recorder

File No. **38579**

RECEIVED

T. 20 N. R. 20 E. 17

DUPLICATE

DEC 30 1969

County Fergus

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Owner Kilton Butcher Address Sulfolk, Montana

Driller George O. Singley Address Lewistown, Montana

Date of Notice of appropriation of groundwater None

Date well started Dec. 10, 1969 Date completed Dec. 19, 1969

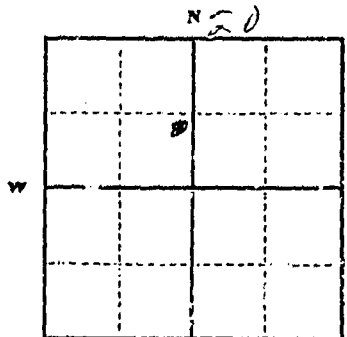
Type of well Drilled Equipment used Rotary
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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	1 topsoil
1	22 Yellow sand, gravel, clay
22	290 Bear Paw Shale
290	305 Top Judith River Shale Formation
305	310 Shaley sandstone Coal streaks
310	335 white sandstone Hard streaks, Water
335	340 Sandy shale
340	345 Coal
345	355 Sandy shale
355	365 Sandstone, Water
365	372 Coal
372	410 Sandstone, Water
410	412 Coal
412	451 Sandy Shale
451	455 Rock
455	540 Varitied shale
540	541 Hard rock
541	592 Varitied shale
592	603 Sandstone, Water
603	620 Shale
620	665 Sandstone, Water
665	675 Shale

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7-7/8		0	21			
5-5/8		21	315			
5-3/8		315	675			
	ALODALID PVC Plastic	1' above GP	675	5/16 holes	Opposite water sands	



Static Water Level for non-flowing well 40 feet.

Shut-in Pressure for Flowing Well None

Pumping Water Level 145 feet at 7 gal. per minute.

Discharge in gal. per min. of flowing well None

How Tested Bailer & Pumping

Length of Test 1/2 hr. and 1 hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff) Casing sealed with rubber packer and cement.

SE 1/4 Sec. 17 T. 20 N. R. 20 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.

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.

19
Driller's License Number

George Singley
Driller's Signature

46009

38579

COPY

State of Montana, } ss.
County of Fergus.

DEC 29 1969

Filed _____ 19

at 12:00 o'clock Noon.

* 2nd pt

Way Rathbun
County Clerk and Recorder

DEC 29 1969

File No. 15654

T. 20N R. 20E

DUPLICATE

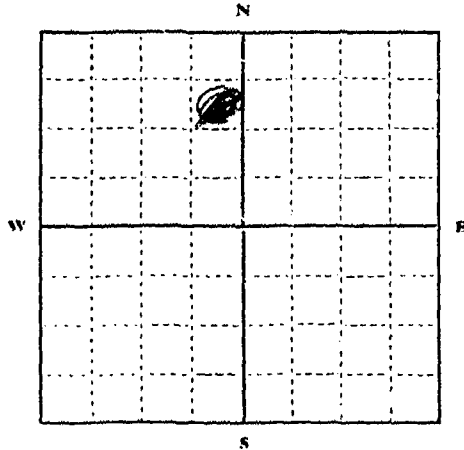
County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Melton H. Butcher, of Winitia
(Name of Appropriator) (Address) (Town)
County of Terrebonne State of Mont
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



E. 4th Sec. 17 T. 20. R. 20

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

2. The beneficial use on which the claim is based. House & garden

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 6 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. power pump

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

8. The depth of water table. 30 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. Clear sand shale 70 ft deep

10. The estimated amount of groundwater withdrawn each year. 30 to 30 thousand gal

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

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

Signature of Owner Melton H. Butcher
Date Oct 2, 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.

15654

COPY

State of Montana, }
County of Fergus, } ss.

Filed OCT 2 1963 79

at 2:15 o'clock P. M.
Wey Rathburn
County Clerk and Recorder

Handwritten initials and numbers:
10
20
30
40

Handwritten: James

Handwritten: 1001

Handwritten: 1000

Handwritten: 1000

Handwritten: James Bond

Handwritten: Joe

Handwritten: 3000

Handwritten: 1000

Handwritten: 05 05 71 100 3

Handwritten: 1000
1000
1000
1000

File No. 80053

RECEIVED

T. 20 N. R. 20 E. 17

DUPLICATE

NOV 1 1967

County: Fergus

LOG

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

STATE WATER CONSERVATION BOARD

Top of Ground

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

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

- 275 Bear Paw
275 345 Top Judith River
345 355 Coal
355 365 Light blue sandstone
365 375 Brown grey blue Variated shales
375 385 Sandstone, shaley
385 393 Sandstone
393 402 Shaley sandy, trace coal
402 410 Coal
410 423 Brown sandy shale
423 424 Hard silicate sandstone
424 432 Sandy shale
432 444 Hard sandrock
444 495 Variated shale
495 505 White hard sandstone
505 562 Variated shales Hard
562 597 Hard sandy shale
Grey, blue, brown Variated
597 600 Hard sandrock
600 630 Sandstone
630 633 Hard silicate sand
633 637 Soft water sandstone
637 645 Hard sandstone
645 652 Soft sandstone, Water
652 653 Hard sandrock
653 682 Soft sandstone
682 692 Hard sandstone
692 700 Soft sandstone, Brown Streaky
700 705 Hard blue sandstone
705 712 Soft sandstone, brown tint
712 720 Hard rock
720 727 Soft sandstone, brown
727 757 Hard sandrock
757 770 Variated shales Brown, grey, black
770 790 Grey hard sandstone
790 800 Soft grey sandstone
800 803 Hard sandrock
803 810 Soft sandstone, Water
810 935 Hard streaks of sandstone
935 1103 Grey shale
Hard streaks at 1009-1010
1103 1162 Black silty shale
1162 1163 Hard rock
1163 1166 Shale
1166 1167 Rock
1167 1245 Sandy shale
1245 1246 Rock
1246 1296 Sandy shale
1296 1297 Sandstone
1297 1340 Silty black shale
1340 1350 Sandy shale, Bentonite streaks
1350 1515 Black silty shale
1515 Sandstone

Owner: Milton Butcher Address: Suffolk, Montana
Driller: George O. Singley Address: Lewistown, Montana

Date of Notice of appropriation of groundwater: None

Date well started: April 15, 1967 Date completed: Sept. 7, 1967

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

Water use: Domestic [x] Municipal [] Stock [x] 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.

Table with columns: Size of Drilled Hole, Size and Weight of Casing, From (Feet), To (Feet), PERFORATIONS (Kind Size, From (Feet), To (Feet)).

Static Water Level for non-flowing well: 1 feet.
Shut-in Pressure for Flowing Well: 0.
Pumping Water Level: 180 feet.
at: 4 gal. per minute.
Discharge in gal. per min. of flowing well: 0.
How Tested: Bailing and pumping.
Length of Test: 2 hr & 24 hr.
Remarks: (Gravel packing, cementing, packers, type of shutoff)
8 E 4, 7 E 4 1/2 Sec. 17, T. 20 N. R. 20 E. in R. 20 7/20

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

Con't. on back

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.

19
Driller's License Number
George O. Singley
Driller's Signature
73-468

Log con't.

1530	1552	Hard rock
1552	1595	white salt-bearing sandstone
1595	1597	Hard caprock
1597	1632	Sandstone
1632	1652	Shale, Dentonite streaks

30959

COPY

State of Montana, } ss.
County of Fergus, }

Filed NOV 6 1967 19
at 4:15 o'clock P.M.

May Rathbun
County Clerk and Recorder

\$ 200.00

RECEIVED
JUN 14 1959

T. 20N R 20E 17
County Fergus

STATE ENGINEER
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Milton Bateman Address Winifred, Montana
Driller George G. Singley Address Lewistown, Montana
Date Started April 25, 1959 Date Completed April 29, 1959
Location: Sec. 17 T. 20 R. 20 1/4 sec. SE 7W

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: _____

Above ground
Casing: 2 ft. to 48 ft. Type # 4 S Size 5 3/16" ID
Casing: 48 ft. to 72 ft. Type # 4 S Size 4 1/2" ID
Casing: _____ ft. to _____ ft. Type _____ Size _____
Perforated or Screened: Ft. 48 to ft. 72 Ft. _____ to ft. _____
Type of screen or perforations Slot

Static Water level, for non-flowing well: 35 feet.
Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)
Pumping water level 60 feet at 35 gal. per min.
How tested: 3 hr. Sling
Length of test: _____

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

(over)

T. 20 N R. 20 E 28
 County Fergus

MONTANA BUREAU OF MINES AND GEOLOGY
 Butte, Montana

WATER WELL LOG

Fearless Inc.
 1570 Denver City Bldg.
 Denver 2, Colorado

		X	

Owner: Fearless Oil & Gas Company
 Wytana Ranch Division Address

Driller: W. L. Livingston Address: Winnett, Montana

Date Started Date Completed

Location: Sec. 28 T. 20 R. 20 1/4 sec. NW 1/4 SE 1/4

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

Water use: Domestic Municipal Stock Irrigation
 Industrial Drainage Other:

Casing: ft. to ft. Type Size
 Casing: ft. to ft. Type Size
 Casing: ft. to ft. Type Size

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

Type of screen or perforations

Static Water level, for non-flowing well: feet

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

Pumping water level: feet at gal. per min.

How tested:

Length of test:

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

(over)

W. L. LIVINGSTON
P. O. Box 231
Winnett, Montana

Log of Horse Ranch Well No. 10

0--13 Surface soil
13--18 gravel
18--135 dark shale, hard black sandy lime streak
135--185 gray clayey sand
185--195 soft gray shale with streaks of coal and sand
195--205 soft clayey sand
205--210 dark clayey shale and coaly sand
210--228 soft gray, clayey sand (hard streaks)
228--238 soft gray and brown shale, streaks of medium sand
238--265 dark gray sand medium soft, streaks of brown and gray shale
265--280 gray and brown mushy shale
280--295 firm gray shale, streaks of lime coal and sand
295--410 soft gray clayey shale and streaks of sand
410--445 various colored shales (firm)
445--490 soft gray clayey shale
490--530 various colored shale with streaks of soft gray shale
530--545 soft dark gray sand, some hard streaks
545--575 various colored shale with streaks of coal and sand
575--585 light gray sand, very fine
585--588 gray shale
588--603 soft fine sand
603--664 various colored shales with streaks of lime and sand
664--692 soft sand, hard lime streaks
692--695 hard shale
695--740 sand with streaks of shale coal and bentonite
740--765 sand with streaks of shale
765--775 various colored shales

Ran 741 feet of 4½ O. D. casing.
Casing from 0 to 500 feet new; and from 500 to 741 old pipe.
Halliburton cemented with 30 sacks from 300 feet up.
Perforations from 455 to 475 feet; 520 to 545 feet; 565 to 610 feet;
670 to 741 feet.
Well flowing 6 gallons per minute.

1115
COPY

State of Montana, }
County of Lewis & Clark }

Filed MAY 23 1950
at 2:00 o'clock P.M.
Max Rodden
County Clerk and Recorder

4/00 pt .