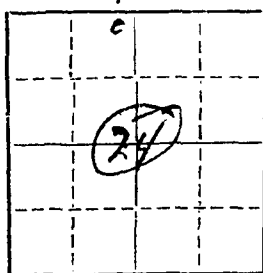


T. 15 R. 20
County Fergus

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG



Owner George Smith Address Stanford Mont.
Driller O. C. Thatcher Address Stanford Mont.
Date Started Sept. 24 1957 Date Completed Sept. 26 1957
Location: Sec. 24 T. 15 R. 20 1/4 sec. NE 1/4 & NW 1/4

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

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

Casing: 9 ft. to 255 ft. Type galvanized Size 2 inch
Casing: _____ ft. to _____ ft. Type _____ Size _____

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

Perforated or Screened: Ft. 225 to ft. 255 Ft. _____ to ft. _____

Type of screen or perforations holes cut in pipe

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)

89817

State of
Georgia

Filed NOV 21 1957

at 10:20 o'clock A.M.

DORIS L. MAINE

County Clerk and Recorder

By Mary R. Rethman
Deputy

-50 f 30.

File No. 17398T. 15 R. 20E

DUPLICATE

County Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

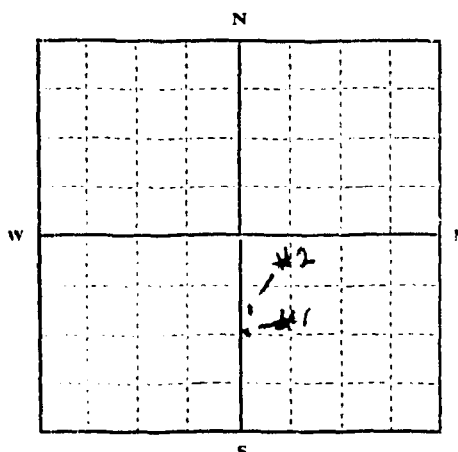
RECEIVED
JAN 2 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Clarence R. Smith, of Hilt Edge R. Lewistown
(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 SE 1/4 Sec 28 T15 R20

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
1910 + continuously
3. Date or approximate date of earliest beneficial use; and how continuous the use has been #1 - 4 gal/min. 1910 con-
#2 - 3 gal/min. tinuously
4. The amount of groundwater claimed (in miner's inches or gallons per minute) #1 - 1 gal/min. #2 - 3 gal/min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal none
springs
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater none springs
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 none springs
10. The estimated amount of groundwater withdrawn each year #1 - 2,102,400 #2 - 1,586,800
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

Clarence R. SmithDate 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.

17324

17398

State of Illinois
County of Peoria

COPY

Filed DEC 30 1963
at 3 55 o'clock P.M.
#200 P.J. MAY RATHBUN
County Clerk and Recorder

File No. **16752**

DUPLICATE

T. **1** R. **1**

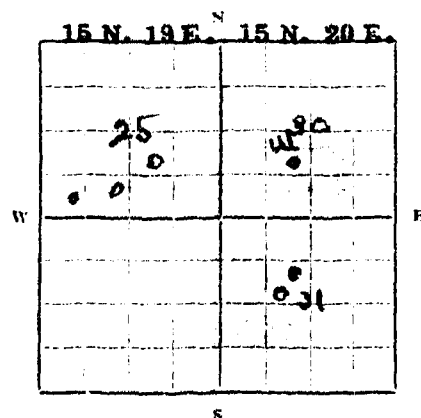
County **...**

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

RECORDED
STATE ENGINEER

1. **Joe Kovacich** of **Gilt Edge Route, Lewistown**
(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 **upon user.**
The red colors represent land owned by me.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been **1939. Used continuously for stock water. o represents springs all used for stock water.**

4. The amount of groundwater claimed (in miner's inches or gallons per minute) **300 miners inches for use of water from springs.**

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 for irrigation except for less than one acre for garden.**

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal **There is one well marked "W" in NE 1/4, Section 30.**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater **Well sunk in 1948 - 84 feet deep. Well is used for domestic purposes.**

8. The depth of water table **Approximately 65 feet to 75 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 **The well is a drilled well with a pump.**

10. The estimated amount of groundwater withdrawn each year **Don't know how to estimate. Probably a barrel per day.**

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record **No county record.**

Signature of Owner **Joe Kovacich**

Date **December 11, 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.

7696

16752

OP

State of Montana } ss.
County of ... }
Filed... DEC 11 1963 19...
at 4:10 o'clock P. M.
Mary Bethur
County Clerk and Recorder

* 200 pt

GROUNDWATER INDEX

Page of

County Twp. Rge.

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
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T. 15 R. 21 E
County Fergus

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Eugene S. Mack Address Salt Edge Route
Driller Wellman T. Munson Drilling Co. Address Grass Range, Montana
Date Started Sept. 30-1959 Date Completed Oct. 7-1959
Location: Sec. 14 T. 15 R. 21 E 1/4 sec. E 1/2 SW 1/4

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

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

Casing: 0 ft. to 174 ft. Type threaded & coupled Size 6" O.D.

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: approx 15 lb./sq. in. on 10/7/59 (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

(over)

Log of Well

11.15
 NOV 11 1891
 10
 BOSTON & MAINE
 COAST STEAMSHIP AND RAILROAD CO.
 By My Captain
 Deputy
 \$1.00 - P.D.

33052
Lapay

File No. 10841

DUPLICATE

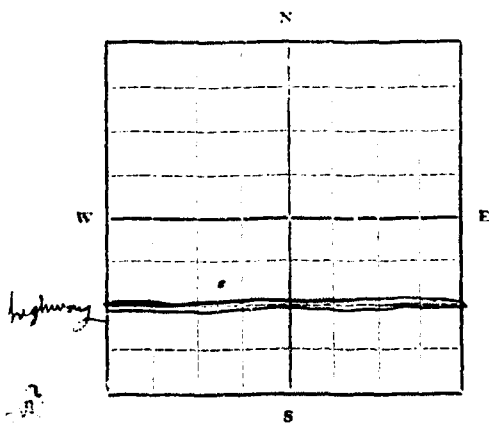
T. 15 R. 21
County Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. EUGENE S. MACK & ROSE M. MACK of GILT EDGE ROUTE, LEWISTOWN,
(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 NE 1/4 SW 1/4

~~SW 1/4~~ Sec. 14 T. 15 R. 21

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, stock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Oct 7, 1959, continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 12 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 5 acres - E 1/2 SW 1/4 of Section 14, T. 15, R. 21
EUGENE S. MACK & ROSE M. MACK
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Flowing well
E 1/2 SW 1/4 of Section 14, T. 15, R. 21
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Start: Sept. 30, 1959 - Completion: Oct. 7, 1959
8. The depth of water table 208'
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 Type: Drilled, threaded, coupled, cased.
10. The estimated amount of groundwater withdrawn each year 5 million gallons
11. The log of formations encountered in the drilling of each well if available See File # 7974, Document 99052, on file in the Office of Clerk and Recorder of Fergus County at Lewistown, Montana;
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 See document 99052, File # 7974, Office of Clerk & Recorder of Fergus County, at Lewistown, Montana

Signature of Owner Eugene S. Mack
Rose Marie Mack

Date AUG. 20, 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.

10841

COPY

State of Montana, } ss.
County of Fergus.

Filed AUG 27 1962 19

at 10:15 o'clock A.M.

May Rathen
County Clerk and Recorder

920 pm

File No. R1(14)

DUPLICATE

T. 15N R. 21E 12M

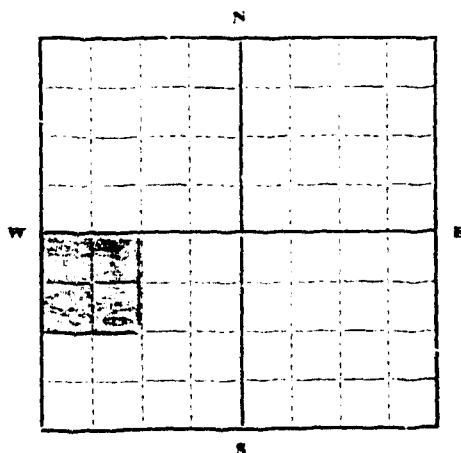
County Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. United States of America of c/o U. S. Corps of Engineers
(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:



NW 1/4 SW 1/4 Sec. 24 T15N R. 21E12M

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 con-
tinuous the use has been...
30 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 with-
drawal of groundwater...
Started - 28 September 1960
Completed - 30 September 1960

8. The depth of water table...
76 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 - 122 feet

10. The estimated amount of groundwater withdrawn each year...
2880 gallons

11. The log of formations encountered in the drilling of each well if available...
Sandstone and shale of various types

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

WITNESS:

Blair D. E. McArthur

Signature of Owner

UNITED STATES OF AMERICA

By John E. Ritchie, Actg Chief
Great Falls Real Estate Ofc
Date USCE, Seattle District

11 Sept 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.

9278 COPY

State of Montana. } ss.
County of Park.

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

Wey Rothman
County Clerk and Recorder

*200-1

File No.

15827

T. 15

R. 21

DUPLICATE

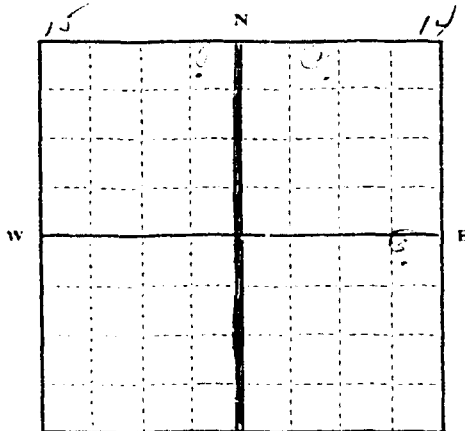
County Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Ben Cook of Grass Range
(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:



1/2 SW 1/4, Sec. 14, T. 15, R. 21
NE 1/4 Sec. 15, T. 15, R. 21

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

2. The beneficial use on which the claim is based Watering
Stock and Domestic use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1914 on all three wells;
used every year since that time
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1 gallon per minute from each
well
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 dipped
out by hand and bucket
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1914
8. The depth of water table about 20 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 #1-25' deep, 2' in diameter; rocked out and
water removed by dipping or hand pump; #2-25' deep, 2' in diameter, same
means of removal; #3- 8' deep, 6' square; both 2 and 3 are rocked out
and have the same means of removal.
10. The estimated amount of groundwater withdrawn each year 1,576,800 gallons per 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

Signature of Owner

Ben Cook

Date

October 1, 1965

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.

2465

15827
COPY

State of Montana, } ss.
County of Fergus.
Filed... OCT 17 1903 19
at 3:02 o'clock P.M.
Way Rathbun
County Clerk and Recorder

#200-24.

File No. 10840

DUPLICATE

T. 1 R. 5

County Flathead

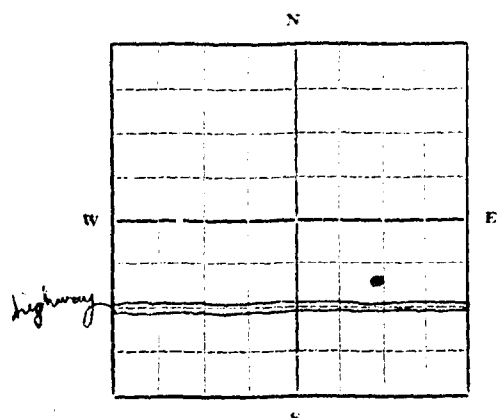
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. EUGENE S. MACK & ROSE MARIE MACK GILT EDGE ROUTE, LEWISTOWN
(Name of Appropriator) (Address) (Town)

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



NE 1/4 Sec. 15 T. 1 S. R. 21

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 Oct. 1955
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 400 gal. per hr
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 1 1/2" pump; NE 1/4 Sec. 15
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater started September, 1955; completed November, 1955;
8. The depth of water table 10 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 Type: Concrete walls and top; 2" pipe for pump; with manhole
10. The estimated amount of groundwater withdrawn each year 150,600
11. The log of formations encountered in the drilling of each well if available Not taken
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 Eugene S. Mack
Rose Marie Mack

Date AUGUST 20, 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.

10840

COPY

State of Montana, } ss.
County of Fergus.

Filed AUG 27 1962 19
at 10:15 o'clock A.M.

Wray Rathbun
County Clerk and Recorder

200 pt

T. 15 N R. 21 E

County. Fergus

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner. Roman alias Address. Gilt Edge Rt
Lewistown, Montana

Driller. D.C. Thatcher Address. Stanford, Montana

Date Started Jan. 2, 1958 Date Completed Jan. 8, 1958

Location: Sec. ~~XXXX~~ ¹⁷ T. 15 N R. 21 E 1/4 sec. SENE

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other: _____

Casing: 0 ft. to 485 ft. Type galvanized Size 2"

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

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

Perforated or Screened: Ft. 485 to ft. 485 Ft. _____ to ft. _____

Type of screen or perforations. Perforated pipe

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

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

Pumping water level. flowing feet at 18 gal. per min.

How tested: _____

Length of test: _____

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

Cemented Manual shut-off 5 1/2 feet down.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	8	Overburden
8	30	Soft sandstone producing a small trace of water
30	55	Sandy shale
55	75	Bluish gray shale
75	95	Grey and white shale
95	110	Sandy white shale
110	132	Sandy grey shale
132	195	Red shale
195	220	Sandstone
220	265	Sandstone and sandy shale
265	285	Hard and medium hard sandstone
285	300	Hard sandstone
300	340	Hard sandstone with small streaks of sandy shale
340	350	Sandy shale
350	395	Sandstone and sandy shale
395	419	Grey and white shale
419	425	Grey and white shale with small amount of bentonite
425	465	Sandy shale with stringers of sandstone
465	485	Soft sandstone
485	495	Hard sandstone

Filed
 County of Petroleum
 State of Montana
 1944
 10

T. 15. north R. 21 East

County. Fergus County, Montana

STATE FILE NO.

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

			x

Owner. Pearle I. Duko Address. Lexington, Montana

Driller. D. C. Thatcher Address. Stanford, Montana

Date Started. January 14, 1958 Date Completed. July 1, 1958

Location: Sec. 21 T. 15 R. 21 1/4 sec. E 3/4

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

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

Casing: _____ ft. to 212 ft. Type. galvanized Size. 4"

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

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

Perforated or Screened: Ft. 22 to ft. 145 Ft. _____ to ft. _____

Type of screen or perforations. 3/8" x 2 1/2" staggered

Static Water level, for non-flowing well: 15 feet.

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

Pumping water level. 147 feet at 5 gal. per min.

How tested: bailing

Length of test. 2 hours

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

21 15 21 E 3/4

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	14	Overburden
14	17	Sandstone
17	22	Red Shale
22	55	Sandy Shale
55	95	Soft Sandstone
95	105	Sandy Shale
105	145	Soft Sandstone
145	199	Soft Sandstone
199	245	Sandstone (water)
245	265	Grey and White Shale
265	270	Coal
270	310	Grey Shale with Coal
310	330	Black Shale
330	365	Sandstone
365	395	Grey Shale
395	397	Sandstone
397	455	Grey and White Shale
455	460	Sandstone
460	467	Grey and White Shale
467	473	Sandstone
473	483	Grey Shale
483	485	Sandstone
485	490	Grey Shale
490	498	Sandstone
498	501	Grey Shale
501	750	Grey Shale with layers of Sandstone and Limestone

Well pumps approximately 5 gallons per minute. Cased with 4" galvanized pipe.

State of Montana
County of Park
Filed
1903
April 1st
at
100 ft.
C. P. M.
County Clerk and Recorder

File No. **11918**T. **15** N. R. **1**

DUPLICATE

County **Fergus**

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

Surface soil

Red clay

Noncaliche

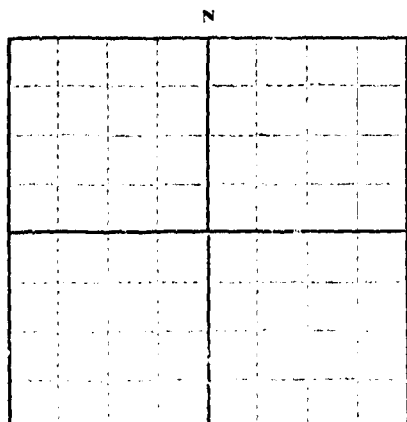
Skeletal sand

Salt water and I.

Owner **Wend Holland** Address **Grass Range, Mont.**Driller **William W. Munson Drilling Co.** Address **Grass Range, Mont.**Date of Notice of Appropriation of Groundwater **(Not applicable)**Date well started **10/27/62** Date Completed **11/2/62**Type of well **Drilled** Equipment Used **Rotary**
(dug, driven, bored or (Churn, drill, rotary or
drilled) 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 5/8	11 lb. 4	0	50	Porch	29	50



1/4 Sec. T. **15** N. R. **1**
 Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom. **52 ft. 10 in.**

Static Water Level for non-flowing Well **13** feet.

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

Pumping Water Level **25** feet at **10** gal. per minute.

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

How Tested **Driller's Pump** Length of Test **30 minutes**

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)

Cemented

Driller's License Number

W. C. Munson
 Driller's Signature

William W. Munson Drilling Co. Inc.

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; Triuplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

11918

COPY

State of Montana } ss.
County of Park }

Filed NOV 26 1899 19____
at 12:40 o'clock P.M.
May Rathbun
County Clerk and Recorder

\$2.00 pd

File No. 15326T. 15 R. 22

DUPLICATE

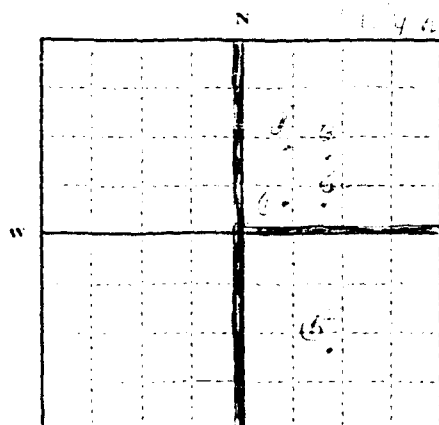
County Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Ben Cook of Grass Range
(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 Sec 23, T. 15, R. 22

SW 1/4 Sec 23, T. 15, R. 22

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

2. The beneficial use on which the claim is based watering Stock and Domestic purposes
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1930 and 1962
4. The amount of groundwater claimed (in miner's inches or gallons per minute) Nos. 1, 2, 3, 4 - about 5 gallons per minute; 1 gallon 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 all are flowing wells developed from springs
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater wells 1, 2, 3, 4 about 1930 and well 5 1962
8. The depth of water table ground level on all except #2 - 8' deep and #3 - 25' deep
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 #1 4' in diameter and is cemented; (surface) #2 - rock out and dipped out by bucket; #3 - rock out and dipped out by bucket; #4 - surface and runs out naturally; #5 surface and runs out.
10. The estimated amount of groundwater withdrawn each year 9,482,000 gallons per year
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 Ben CookDate February 14, 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.

15826

COPY

State of Montana, } ss.
County of Fergus.

Filed OCT 17 1963 19
at 3:00 o'clock P.M.

Way Rathbun
County Clerk and Recorder

#2-20

Form No. 18
8-60

T. 15 N R. 21 E

County Fergus

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

		*

Owner Melville Snider Address Grass Range, Montana

Driller Wellman & Munson Drlg. Co. Address Grass Range, Montana

Date Started October 22-1961 Date Completed October 27-1961

Location: Sec. 24 T. 15 N R. 21 E $\frac{1}{4}$ sec. NE₄ NE₄

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

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

Casing: 0 ft. to 15 ft. Type Steel Size 6 inch

Casing: 0 ft. to 148 ft. Type Steel 11 Lb. Size 4 $\frac{1}{2}$ o. d.

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: approx. 30 lb./sq. in. on: 10/27/61
(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)

Cone packer at 148 ft. Cone packer at 15 ft. Cemented

(over)

Log of Well

[illegible]

7376

copy

G:

8623

File No.

DUPLICATE

T 15 R 21

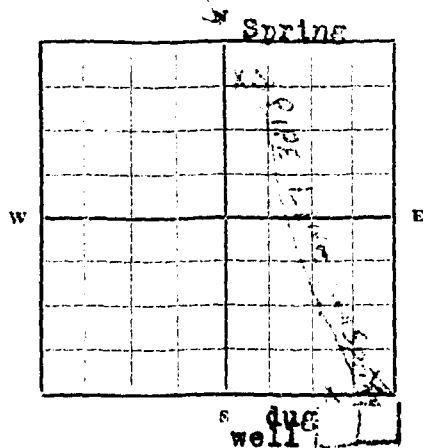
County Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Melville Snider of Rural- Grass Range
(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 NE Sec. 24 T. 15 R. 21

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 & Irrigation & Sub-irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been
October 30, 1961 Artesian
Irrigation from spring May 15, 1946
Dug well used for stock water & irrigation as
needed. dug. October 16, 1958
4. The amount of groundwater claimed (in miner's inches or gallons per minute)
12 Gal. Per Min. Artesian well
200 gal. per minute over all

Artesian Well If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
5 acres in sec. 24. 15. 21.
and sec. 19-15-22
Melville Snider & Dorothy C Snider Estate

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

2 in. Pipeline from spring

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
October 27 -- Completed - October 30, 1961
Spring May 15, 1946 Dug well October 16, 1958

8. The depth of water table
186 Ft. Artesian well - Spring & well 12 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
5 & 5/8 - 204 Ft.
2000 foot of 2 inch pipe from spring

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

withdrawal from Spring over a million gal.

11. The log of formations encountered in the drilling of each well if available
Spudded into the
Colorado Shale & T.D. In The Second Cat. Creek.
Spring in gravel.

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

Melville Snider

Date February 1, 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 School of Mines and Quadruplicate for the Appropriator.

1483

8623 COPY

County of Fergus, Mo.

Filed FEB 15 1962
at 11:45 o'clock P.M.

Wm. R. Rother
County Clerk and Recorder

W. R. Rother

GROUNDWATER INDEX

Page of

County Twp. Rge.

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
1				
2				
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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 Montana Water Resources Board
Address 1000 1st Ave. N.E.
Date well started March 1, 1971
completed June 4, 1973

For Administrator's Use

File 51082

June 4, 1973

GW 1 11:30 A.M.

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

Equipment used Rotary
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☐

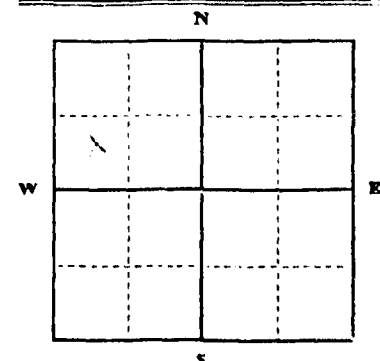
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☒

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL could use 31,000,000 gal
/year.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS	Kind Size	From (Feet)	To (Feet)
2"	7"	0	100				
3 1/4"	15 1/2"	0	100	Jet	1250	1300	
	12"	100	1371	2shots	1310	1320	
		0	1371	/ft.	1300	1300	



Static water level 90 ft.*
Pumping water level 300 ft.*
at 00 gallons per minute,
measured 00 minutes after pumping
began.

*Measured from ground level.
Well developed by pumping 1000 hrs
for 1000 hours.

Power 220 Pump 5 HP

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

cemented 1371 to 0

1/4 Sec. 1
T. 15 N. R. 22 E.
S. W.

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

Driller's Signature B. M. Munson

Driller's Address Grass Range, Mont.

LICENSE NO. 26

County Beaumont

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	400	Heavy of calc. group shales and fossils
400	457	shale - calc. it. strike
457	477	shale - sandy shale and
477	500	black shale - calc.
500	510	sandy shale
510	581	sand and shale strike
581	600	sand (first cat creek and) shale breaks
600	650	red - greenish, white silt
		top of Montane
650	660	silt and pepper sand
		1st bench 2nd cat creek
660	680	low shale - lime and
		silty sand streaks
680	1025	limy and limy
1025	1048	led. green clays sand streaks
1048	1051	sandy lime and bench of 2nd cat creek sand
1051	1100	fine dirty sand strks limy sand streaks
1100	1222	Hard limy base chunky sand top of 3rd cat cre Creek sand
1222	1300	sand fine-limy shale strks intervals 12ft.
1300	1377	sand and hydro-carbon to shale top notrison
1377	1350	red speks and sand- limy shale streaks green speks
1350	1360	coarse sand, dirty gray to white
1360	1371	Shale to hard limy sand
1371	0	

1371' Show exact depth of bottom

53,366

51082

COPY

State of Montana)
County of Fergus) ss.
Filed JUN 4 1973

at 11:30 o'clock A.M.
May K. [Signature]
County Clerk and Recorder.

Fee Paid \$2.00

File No. **39099**T. **15** R. **22**

DUPLICATE

County **Terre Haute**

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARDNotice of Completion of Groundwater
Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

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

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

3 ft. surface soil

to

521' shale, bentonite streaks grading to streaks shaley sand

to

538' First Cat Creek Sand very poor porosity, 10%-20% sub angular sand. little H₂O indicated

to

558' silty sand lenses hard shale streaks

to

564' Top of Kootenai red clay streaks some chert

to

701' reddish shale dirty limey sand streaks intervals of chert

to

704' very hard limey sand Cap rock of second bench of Second Sand of the Kootenai formation

to

743' limey sand to very firm sand and lime streaks

to

780' greyish sand and limey streaks Sand Fractured and good porosity

F.D.

Dec. No. **39099**

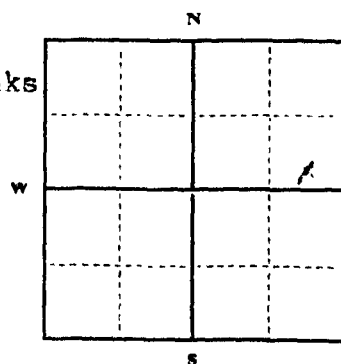
6 day of **March** 19**70** at **11:00** A.M.

Show exact depth of bottom.

Owner **Lester Fitzgerald** Address **Grass Range, Mont.**Driller **Munson Drilling Co.** Address **Grass Range, Mont.**Date of Notice of appropriation of groundwater **not applicable**Date well started **Jan 28, 1970** Date completed **Feb. 10, 1970**Type of well **drilled** Equipment used **rotary**
(Dug, driven, bored or drilled) (Churn, auger, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
12"	8 5/8	0	38			
6 1/2"	22#	38	780			
	4 1/2" 8.0#	0	704			



Static Water Level for non-flowing well

Shut-in Pressure for Flowing Well **approx. 15#**Pumping Water Level.....feet
at.....gal. per minute.Discharge in gal. per min. of flowing well
21

How Tested.....

Length of Test.....

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

cemented
surface 0'-38'
704'-780'

cave catchers at 520'-558'

(Continue on reverse side)

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

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

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

Driller's License Number

B. M. Munson
Driller's Signature**76055**

39099

CO

State of Montana, } ss.
County of Fergus }

MAR 6 1970

Filed _____ 19

at 1:20 o'clock P.M.

May Redburn
County Clerk and Recorder

200 pt.

File No. 17851

T. 15 R. 22

DUPLICATE

County Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 6 1964

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
19 Surface Soil

19
26 Gravel

26
108 Black Shale

108
128 Shale sand

128
134 Sand

134
160 Black silty shale

160
162 Greenish sand

162
170 White to grey clay

170
187 White Sand (Water)

187
190 Red Shale T. D.

Owner Ayers Ranch Colony Address Grass Range, Mont.

Driller Wellman & Munson Drlg. Address Grass Range, Mont.

Date of Notice of Appropriation of Groundwater Not Applicable

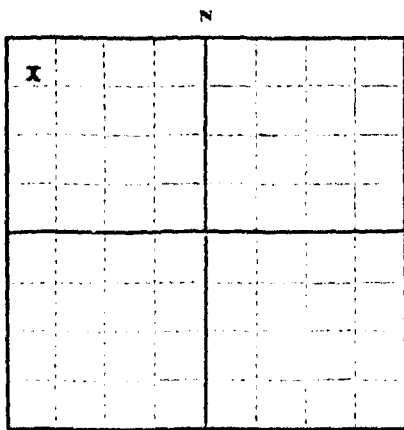
Date well started 11/4/63 Date Completed 11/18/63

Type of well Drilled Equipment Used Rotary
(dug, driven, bored or (Churn, drill, rotary or
drilled) 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 5/8	11 1/2	0	190	Torch	160	190



NW NW 1/4 NW Sec. 20 T15 R22 E
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom. 190 T.D.

Static Water Level for non-flowing Well feet.

Shut-in Pressure for Flowing Well Approx. 20 Lb.

Pumping Water Level feet at gal. per minute.

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

How Tested Length of Test

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

3 cone packers - 3 Sks. cement

Stock Water Well

Wellman & Munson Drlg. Co. Inc.

26
Driller's License Number

R. C. Wellman
Driller's Signature
R. C. Wellman

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.

17851

COPY

State of Montana, } ss.
County of Fergus.

Filed JAN 3 1964 19__

at 12:55 o'clock P.M.

Way R. H. Hines
County Clerk and Recorder

72-2-2

GW

File No. 3385

T 15 R 22

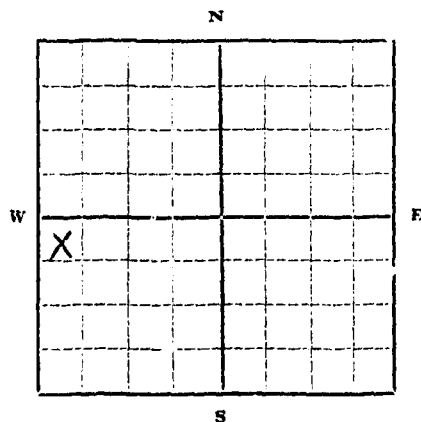
DUPLICATE

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)

1. Ayers Ranch Colony of Rural - Grass Range
(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 SE Sec. 21 T. 15 R. 22

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 7, 1961
(Continuous)
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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 withdrawal of groundwater Spudded in- October 31, 1961 - Completed - November 7, 1961
8. The depth of water table 435 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 5 & 5/8 - 450 Ft.
10. The estimated amount of groundwater withdrawn each year 38,000 Barrels
11. The log of formations encountered in the drilling of each well if available Spudded into the Colorado Shale & T.D. In The Second Cat Creek 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 none

Signature of Owner

Date 1-20-62

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 School of Mines and Quadruplicate for the Appropriator.

1321

8385

COPI

State of Texas }
County of Harris }

Filed JAN 29 1962 19
at 8:00 o'clock A. M.
May Rathbun
County Clerk and Recorder

\$2.00

File No. **27609**T. **15** R. **22**

DUPLICATE

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

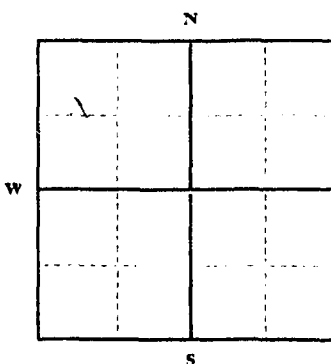
(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
 0 To (Elev. above sea level Est. **3500**)
 20 Wash in Silt Gravel
 28 Sand Calcite Shale
 130 Shale
 147 Sandy Shale
 151 Hard Sand-Pyrites
 160 Sand-Greenish Tint-Tite
 187 Sand Layers-Shale Streaks
 (Good Porosity) Water
 192 Red Clay & Shale T.D.

Owner **Ayers Colony Ranch** Address **Grass Range, Mont.**Driller **Munson Drilling Co.** Address **Grass Range, Mont.**Date of Notice of appropriation of groundwater **Not Applicable**Date well started **Sept. 5, 1966** Date completed **Sept. 8, 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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
9 Inch	Hole	0	32	Cemented	0	32
7"-15#	Hole	0	32			
5 5/8"	Hole	32	192	Regular	157	187
4 1/2"	11#	0	192			

Static Water Level for non-flowing well **15** feet.

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

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

Discharge in gal. per min. of flowing well

How Tested **Test Pump**Length of Test **48 hrs.**

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

Cave cather at 1578

(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 **26**Driller's Signature **B. M. Munson**

41797

27609

COP

County of Mendocino, Cal.

OCT 7 1966

19

Filed

at 1:30 o'clock P.M.

May Rothman
County Clerk and Recorder

200 pr

File No.

17167

DUPLICATE

T.

R.

County

RECEIVED
DEC 11 1963STATE 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)

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

0 1 Topsoil

1 15 Drift

15 25 Blue shale

25 85 White rock and sand

85 90 Hard blue shale

90 100 Red, white and green shale

100 105 Light green sandy shale

105 145 Light green sandstone

145 240 Red shale

240 271 Hard white rock

271 301 Hard rock, some sand

301 311 Shale

311 314 Hard white silicate

314 320 Hard rock

320 330 Shale

330 351 Hard rock

351 375 Rock

375 386 Grey shale

386 390 White clay

390 395 Hard rock

395 410 Red shale

410 415 White rock

415 417/ white clay

417 428 Third Cat Creek

428 455 Sandstone

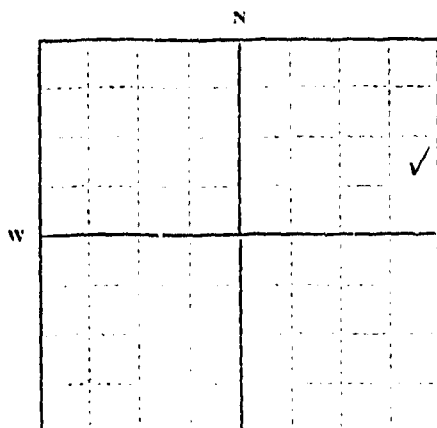
Owner Harry Seversen Address Grass Range, MontanaDriller George O. Singley Address Lewistown, MontanaDate of Notice of Appropriation of Groundwater NoneDate well started Nov. 25, 1963 Date Completed Dec. 6, 1963Type of well Drilled Equipment Used Rotary

(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)
4 - 3/4"		1	270			
4"		270	455			
	2" galv.	above g.				
		1'	455	2" slot	428	455



SE 1/4 NE 1/4 Sec. 29 T. 15. R. 22

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 None feet.Shut-in Pressure for Flowing Well 25Pumping Water Level ---- feet at ---- gal. per minute.Discharge in gal. per min. of flowing well 15How Tested Measured Length of Test 5 min.

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

19

Driller's License Number

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.

14396

17167 COPY.

State of Washington
County of King

DEC 27 1985

Filed

at 4:10

o'clock P. M.

W. J. Rutter
County Clerk and Recorder

2nd pd

File No. 12568

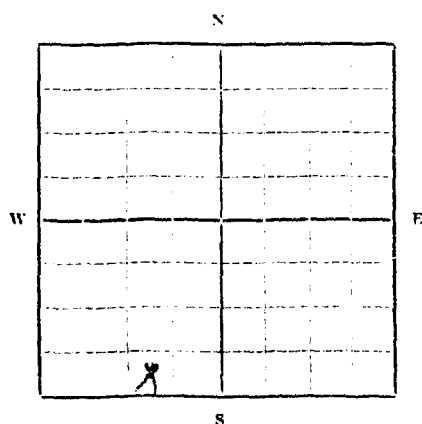
DUPLICATE

T. 121 R. 121
County: Blaine

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. I, Harry L. Sykes, of Blaine, Montana,
(Name of Appropriator) (Address) (Town)
County of Blaine 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. 29, T. 15, R. 2

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 for irrigation of land
3. Date or approximate date of earliest beneficial use; and how continuous the use has been March 10, 1941 continuously
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 miner's inches
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 100 acres
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal well on flat land
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater March 10, 1941
8. The depth of water table 270'
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 100' deep
10. The estimated amount of groundwater withdrawn each year 1,181,000 gallons
11. The log of formations encountered in the drilling of each well if available 0 to 70' red rock and shale 70' to 90' sandstone and shale 90' to 120' red shale 120' to 140' red and shale 140' to 175' red shale 175' to 200' sandstone and shale
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner

Harry L. Sykes
Date Dec 14, 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 School of Mines and Quadruplicate for the Appropriator.

12568

COPY

State of Florida,
County of Polk.

DEC 18 1962

Filed at 3:15 o'clock P. M.

Wm. R. Ralston
County Clerk and Recorder

\$2.00 per

File No. 12568

DUPLICATE

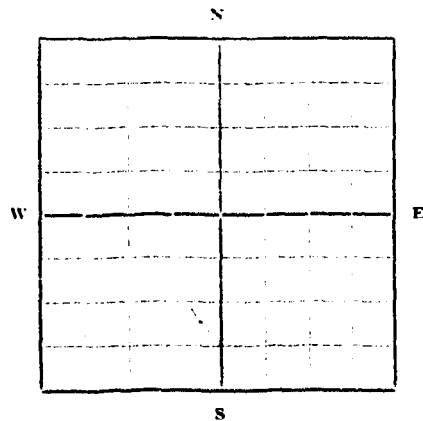
T. 15 N. R. 22 E.
County: Hill

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

1. HARRY L. OF LINDSEY, L. S. J. JR. of Box 121 Rocky Boy
(Name of Appropriator) (Address) (Town)
County of DEWEE State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 29 T. 15 R. 22

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, Irrigation & Irrigation.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been July, 1945 continuous.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 20 gallons per minute.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Garden Irrigation.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Drilling.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater July 1945.
8. The depth of water table 400'
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 inch casing depth 400'
10. The estimated amount of groundwater withdrawn each year 15,000, 100,000 gallons.
11. The log of formations encountered in the drilling of each well if available See record.
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 Harry L. Lindsey

Date Dec 18, 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 School of Mines and Quadruplicate for the Appropriator.

12566

COPY

State of Montana, } ss.
County of Lewis.

Filed..... DEC 18 1962 19.....
at..... 3:15 o'clock P. M.

May Ruthman
County Clerk and Recorder

#200-94.

File No. **16646**

DUPLICATE

T. R. _____
County **Fergus**STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER**Notice of Completion of Groundwater
Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
(Elev. above sea level _____)

0
3 Surface Soil

3
34 Red Clay

34
70 Blue Grey Siltstone

70
140 Silty Shale

140
176 Greenish White Benetic
Sandy Clay

176
184 Hard Dolomite

184
201 Firm Sand

201
210 Sand Good Porosity
Water

Owner: **Arran Dost Sr.** Address **Grass Range, Mont.**

Driller: **Wellman & Munson Drlg.** Address **Grass Range, Mont.**

Date of Notice of Appropriation of Groundwater: **(Not Applicable)**

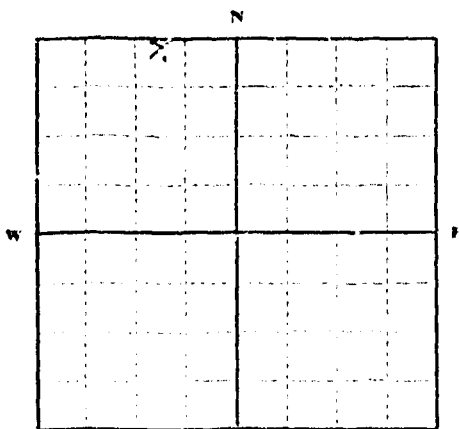
Date well started: **12/2/63** Date Completed: **12/5/63**

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 5/8	9.50 4 1/2	0	186	Open Hole	186	210



NW 1/4 Sec. 31, T. 15, R. 22
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom. **210 T.D.**

Static Water Level for non-flowing Well _____ feet.

Shut-in Pressure for Flowing Well **approx. 20** _____

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

Discharge in gal. per min. of flowing well **10** _____

How Tested _____ Length of Test _____

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

acres irrigated, if used for irrigation) **3** _____**3 Cone Packers** - **3 Sks. Cement** _____**Wellman & Munson Drlg. Co. Inc.**26
Driller's License Number*R. C. Wellman*
Driller's Signature**R. C. Wellman**

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.

16646

COPY

DEC 6 1963
2:30 P.M.
May Rathen
County Clerk and Recorder

200 ph

File No. 12567

DUPLICATE

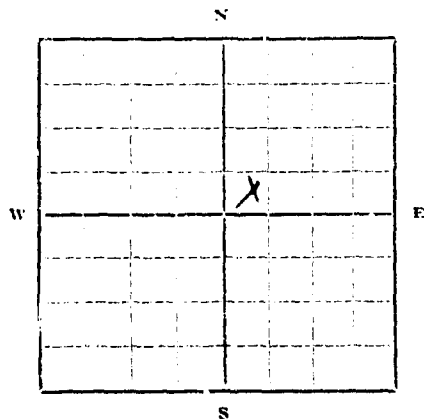
T. R. County.

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

HARRY L. SYMENSEN, of Box 126, Grass Range, (Name of Appropriator) (Address) (Town)

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



NE 1/4 Sec. 31, T. 15, R. 22

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 and irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1911, 1912, 1913 continuously
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 million
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 2000
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 2000
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1911, 1912, 1913
8. The depth of water table 200'
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 2000
10. The estimated amount of groundwater withdrawn each year 10 million
11. The log of formations encountered in the drilling of each well if available 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000
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 1911, 1912, 1913

Signature of Owner Harry L. Symensen

Date Dec 18, 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 School of Mines and Quadruplicate for the Appropriator.

12567

COF

State of Tennessee
County of Fergus

DEC 18 1882

Filed _____
at 2.15 o'clock P.M.

May R. R. R.
County Clerk and Recorder

420-1.

THE RIVER

County: 012, USA

Declaration of Federal Subwater Rights (Under Chapter 4-11, Montana Session Laws, 1991)

[illegible]

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 & Irrigation Sub-division
3. Date or approximate date of earliest beneficial use; and how continuous the use has been
 October 30, 1961 - 1962
 Irrigation from May 15, 1966
 Dependent on surface water availability
 needed, from October 15, 1966
4. The amount of groundwater claimed (in miner's inches or gallons per minute)
 12 Gal. Per Lin. Foot of
 and 1. per acre foot over all

10 If used for irrigation, give the acreage and description of the
11 lands to which water has been applied and name of the owner
12 thereof. 5 acres in sec. 34, 15, 21.

Belville, Edwin S Dorothy C Belville 1976

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

2 in. Pipeline from spring.....

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Completed - October 30, 1961
Started May 10, 1946 Drilled October 16, 1960

8. The depth of water table 186 ft. Artesian well - Spring & well 12 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.
- 5 & 5/8" - 204 ft.
- 2000-foot of 2-inch pipe from spring

10. The estimated amount of groundwater withdrawn each year ... 150,000 Barrels
 11. Estimated amount of water used over a million a l. ... Sampled into the

11. The log of formations encountered in the drilling of each well if available Snapped into the
COLORADO GEOLOGICAL SURVEY, IN THE SECOND CAT CREEK.
..... Spring in gravel.

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 _____

Date: February 19 1943

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 and Our. Instruments for the Approver for.

GROUNDWATER INDEX

Page 1 of 1

County Franklin Twp. 150 Rge. 23 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
33	Capt. Piche	Water Permit	91650	-
19	Douglas	GW 2	44797	-
33	Frederick, John L	Water Permit	91632	-
33	Frederick, Robert D. & Eva M	GW 3	43790	-
13	Fraser, R. B.	Water Permit	51428	-
13	Fraser, R. B.	Water Permit	17247	-
13	Fraser Land & Livestock Co. Inc.	GW 4	17835	-
14	Gardner, Virginia M	GW 4	16855	-
21	Goggin, Joe	GW 4	17574	-
—	Kellogg, Warren	Water Permit	5103	-
21	Richardson, Barbara Ryan	GW 4	9056	-
21	Ryan, George William	GW 4	9056	-
21	Ryan, Mabel C	GW 4	9056	-
20	Ryan, Mabel C	GW 4	9055	-
21	Ryan, Mabel C	GW 4	9051	-
22	Ryan, Mabel C	GW 4	9057	-
22	Ryan, Mabel C	GW 4	9052	-
30	Ryan, Mabel C	GW 4	9053	-
32	Ryan, Mabel C	GW 4	9054	-
33	Shannon, Victor	Water Permit	6217	-
33	Shannon, Victor	GW 4	14248	-
—	Shannon, Victor H	Water Permit	6217	-
—	Shannon, Victor	Water Permit	7375	-
33	Wardlaw, Blaine S	GW 4	15260	-
33	Wardlaw, Blaine S	GW 4	15267	-
13	Fraser Land & Livestock Co. Inc.	GW 3	17836	-
14	" " " "	"	"	-
24	" " " "	"	"	-
25	" " " "	"	"	-

T. 15 North R. 23 East

County, Fergus

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner R. B. Fraser
Livingston, Mont.
Driller, Drilling Contractors
Address, Winnett, Montana
Date Started April 15, 1947
Date Completed May 17, 1947
Location T. 15 N. R. 23 E. S. 14 sec.

Type of well drilled (2 in. or over, hand or other) Equipment used rotary (Churn drill, rotary, other)

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

Casing: 2 ft. to 8 ft. Type 7 1/2" Size 5" 10"
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. (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)
Set 782 feet, 5 inch O. D. casing with float shoe on bottom; cemented with 13 sacks cement top collar on casing 5 feet below ground level; well flowed 2 1/2 gallons per minute; pressure closed in 55 pounds; tested for water from 547 feet to 526 feet; changed from mud to water; washed sand 4 hours with water; well would not flow; baled hole to 375 feet; water raised 200 feet in 14 hours; second sand from 792-808 showed pressure while drilling; well pushed 10 2/10 pounds mud out of hole.

(over)

55413

Log of Well

Depth, feet		Description of Material Drilled	Coring	Remarks
From	To			
0	17	clay and surface sand		
17	32	gravel and clay		
32	39	black shale and bentonite		
39	153	black shale with streaks of bentonite and hard sand		
138	159	black shale with streaks of hard sandy shale		
159	252	black and grey shale with streaks of hard sandy shale		
252	277	hard black and brown shale		
277	302	soft black shale		
302	334	black shale with streaks of bentonite		
334	394	sand and black sandy shale		
394	515	black shale with streaks of bentonite and gypsum		
515	545	black and grey shale with streaks of sand		
545	547	black shale		
547	595	sand with streaks of black shale (pepper and salt sand)		
595	630	black shale with streaks of grey sand		
630	672	blue shale with streaks of bentonite and iron pyrites		
672	700	grey shale with streaks of sand		
700	708	red shale		
708	740	variegated shale (red, white, and green)		
740	779	grey and white shale		
779	784	hard blue or grey lime		
784	799	hard grey shale		
799	792	hard blue or grey lime		
792	808	soft sand (pepper and salt sand)		
808	810	red shale		

51428

COPY

County of Fergus) ss.

Filed JUN 29 1973

at 2:15 o'clock P. M.

May Rathbun
County Clerk and Recorder

Fee Paid \$2.00

T. 13 North R. 3 East
County Pergus

STATE ENGINEER
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

	13	

Owner R. B. Fraser Address
Livingston-Boles
Driller Drilling Contractors Address Minnett, Montana
Date Started April 12, 1947 Date Completed May 17, 1947
Location: Sec. 13 T. 15 N. R. 23 E. 14 sec.

Type of well drilled (Dug, driven, bored, or drilled) Equipment used rotary (Chain 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: 55 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)
Set 760 foot, 4 inch O. D. casing with float shoe on bottom; cemented with 13 sacks cement;
top collar on casing 5 feet below ground level; well flowed 21 gallons per minute; pressure--
closed in 55 pounds; tested for water from 547 feet to 626 feet; changed from mud to water;
washed sand 4 hours with water; well would not flow; bailed hole to 375 feet; water raised 200
feet in 14 hours; second sand from 79-808 showed pressure while drilling; well pushed
10-12 pounds mud out of hole.

(over)

17247
#65

Log of Well			County of Petroleum, MONTANA No.	Filed June 25, 1954 at Blackfoot, M.	Vernon R. Minter County Recorder	Name of Well Shaw-Walbridge Gravelly
Depth, feet		Description of Material Drilled				
From	To					
0	17	clay and surface sand				
17	32	gravel and clay				
32	39	black shale and bentonite				
39	138	black shale with streaks of bentonite and hard sand				
138	159	black shale with streaks of hard sandy shale				
159	252	black and grey shale with streaks of hard sandy shale				
252	277	hard black and brown shale				
277	302	soft black shale				
302	334	black shale with streaks of bentonite				
334	394	sand and black sandy shale				
394	515	black shale with streaks of bentonite and gypsum				
515	545	black and grey shale with streaks of sand				
545	547	black shale				
547	595	sand with streaks of black shale (pepper and salt sand)				
595	630	black shale with streaks of grey sand				
630	672	blue shale with streaks of bentonite and iron pyrites				
672	700	grey shale with streaks of sand				
700	708	red shale				
708	740	variegated shale (red, white, and green)				
740	770	grey and white shale				
770	784	hard blue or grey lime				
784	790	hard grey shale				
790	792	hard blue or grey lime				
792	801	soft sand (pepper and salt sand)				
801	810	red soil				

GV

File No.

17835

DUPLICATE

T17N

R 33E

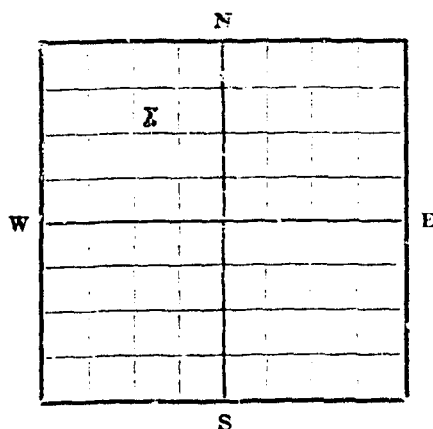
County: Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 287, Montana Session Laws, 1961)

1. **FRASER LAND & LIVESTOCK CO. INC.** of **Box 1352** **Billings, Montana**
(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 Sec. 13 T17N R 33E

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

Well located 20 feet N of house

2. The beneficial use on which the claim is based **stock water & domestic**
3. Date or approximate date of earliest beneficial use; and how continuous the use has been **1951 approximately**
4. The amount of groundwater claimed (in miner's inches or gallons per minute) **10 gallons per minute - artesian flow**
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 **well (artesian) 500 feet**
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater **1951 approximately - Livingston Drilling Co. of Minnett was the driller**
8. The depth of water table **500 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 5" casing - pump house**
10. The estimated amount of groundwater withdrawn each year **40,000 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

FRASER LAND & LIVESTOCK CO. INC.

Signature of Owner

Date **12/31/62**

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 School of Mines and Quaduplicate for the Appropriator.

1727

17835

CO. 1

12 1984

10:30 at clock A.M.

Wray Rathbone
County Clerk and Recorder

6200-1

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

Form No. 10-1-1, 2nd Edition, 8-1-61, Rev. 1-1-62

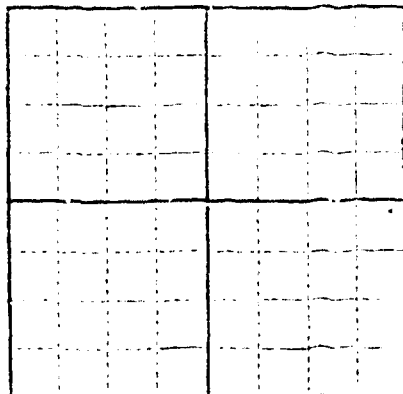
Date of Appropriation of Groundwater 1952
FRATER LAND & LIVESTOCK CO. INC.
Owner's Address Box 1352-Billings

Contractor (if any) E. P. Fraser

Address of Contractor Box 1352 Billings, Montana

Date Started 1952 Date Completed continuous development & upkeep

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



1/4 Sec. 19 T. 15N R. 23E

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

Sections 13, 14, 24, 25 in
T 15N R 23E
Lot 1, 4, part of NE 1/4
Section 19; Twp 15N Rge 24E

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 year around use continuous flow adequate for 300 head of livestock

These are springs in the creek bed of McDonald Creek developed for livestock; also springs in pastures also developed for livestock.

Signature of Owner FRATER LAND & LIVESTOCK CO., INC.
By E. P. Fraser
Date 12/31/63

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.