

GROUNDWATER INDEX

Page 1 of 7

County Richard Twp. 27N Rge. 27E

[illegible]

File No.

T. 27 N., R. 57 E.

DUPLICATE

County Richland

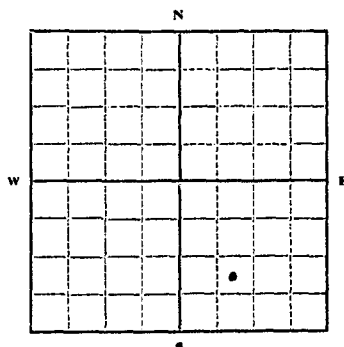
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
DEC 19 1963
STATE ENGINEER

1. C. G. Glasscock & Geraldine Glasscock ^{Lawson}, of P. O. Box 419, Miles City,
(Name of Appropriator) (Address) (Town)
County of Custer State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 SE 1/4 Sec. 19 T. 27 N. R. 57 E

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

2. The beneficial use on which the claim is based.....
Watering livestock

3. Date or approximate date of earliest beneficial use; and how con-
tinuous the use has been Has been used continuously
since 1912.

4. The amount of groundwater claimed (in miner's inches or gallons
per minute) 8 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
No irrigation.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater. 1912

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

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other
works for the withdrawal of groundwater.....
80 foot deep well with 6" casing.

10. The estimated amount of groundwater withdrawn each year Unknown, but pumps 8 gallons per minute.

11. The log of formations encountered in the drilling of each well if available.....
Appropriator knows of no log formations, as well was drilled before present owner
purchased land.

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

Signature of Owner C. G. Glasscock

Signature of Owner Geraldine Glasscock Lawson

Date October 29, 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.

10-499

STATE OF MONTANA, } ss. 285771
County of Richland,

Filed this 17 day of

Dec. A.D. 1963

4:24 o'clock P.M.

E. L. Karker

D. Sullivan

fee: \$2.00

filed

File No.

T. 27 N. R. 57 E.

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

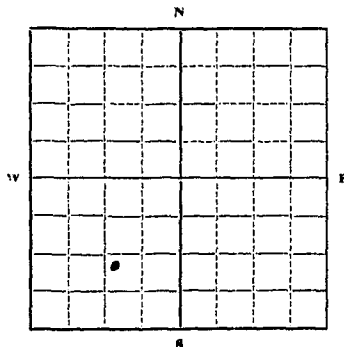
RECEIVED
DEC 19 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. C.G. Glasscock & Geraldine Glasscock Lawson of P.O. Box 419, Miles City,
(Name of Appropriator) (Address) (Town)
County of Custer State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 29 T. 27 N. R. 57 E

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

2. The beneficial use on which the claim is based.....
Used in dwelling.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Has been used continuously since 1953.

4. The amount of groundwater claimed (in miner's inches or gallons per minute)..... 6 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
No irrigation

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

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

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

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.....
110 foot deep well with 6" casing

10. The estimated amount of groundwater withdrawn each year..... Unknown, but pumps 6 gallons per minute.

11. The log of formations encountered in the drilling of each well if available.....
Appropriator knows of no log formations, as well was drilled before present owner purchased land.

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

Signature of Owner C.G. GlasscockSignature of Owner Geraldine Glasscock LawsonDate November 29, 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.

100-98

STATE OF MONTANA, } ss. 285770
County of Richland, }

Filed this 17 day of

dec A. D. 1963

at 4:22 clock, P.M.

E. L. Hooper

County Recorder

D. Sullivan

fee: \$3.00
filed

File No.

T. 27 N. R. 57 East

DUPLICATE

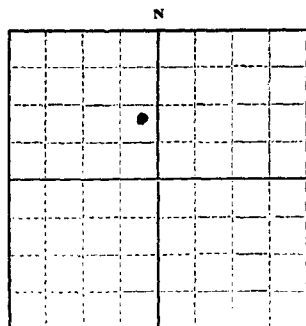
County RichlandSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
DEC 19 1968Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner C. S. Glascock Address Culbertson, Mont.Driller Ray J. Petersen Address Sidney, Mont.Date of Notice of Appropriation of Groundwater November 14, 1962Date well started Nov 12-62 Date Completed 11-13-62Type of well Drilled Equipment Used Churn drill
(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)
8 inch	6 inch Wt. 10:50# per ft.	Surface	77	4" round hole	45	67

SE 1/4 NW 1/4 Sec. 32, T. 27 N. R. 57 E
Indicate location of well and place of use, if possible. Each small square represents 10 acres.Static Water Level for non-flowing Well 35 feet.Shut-in Pressure for Flowing Well Not the CasePumping Water Level 67 feet at 8+ gal. per minute.Discharge in gal. per min. of flowing well Not the CaseHow Tested Drill bailer Length of Test 1 1/2 hours

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) Gravelledand cemented at top for support & sanitation.

Show exact depth of bottom.

77 feet.

Signature of Appropriator:

C. S. Glascock

Driller's License Number

Driller's Signature

Raymond J. Petersen

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.

10/1/88

STATE OF MONTANA, } ss. 285760
County of Richland,

Filed this 12 day of

dec. A. D. 19 63

4:02 o'clock, P. M.

E. L. Hoopes

County Recorder

D. Sullivan

Deputy

for \$5.00
paid

File No.

T27N. R. 52E.

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

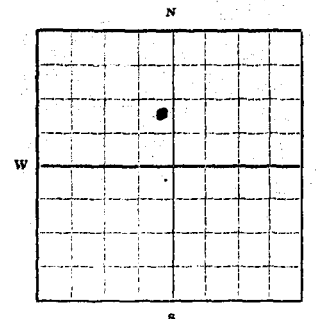
RECEIVED
DEC 19 1962

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. I, C. G. Glasscock of Culbertson,
(Name of Appropriator) (Address) (Town)
County of Richland, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is watering livestock.
(describe lands to be benefited, if for irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed. Eight gallons per minute
4. The annual period (inclusive dates) of intended use January 1 through December 31
5. The probable or intended date of first beneficial use November 14, 1962
6. The probable or intended date of commencement and completion of the well* or wells* Commenced November 12, 1962, completed November 13, 1962
7. The location, type, size and depth of well or wells contemplated Drilled well, 8" hole, 6" casing, 77 feet deep.
8. The probable or estimated depth of the water table or artesian aquifer 77 feet
9. Name, address and license number of the driller engaged Raymond L. Petersen, Sidney, Montana, License No. 111.
10. Give such other similar information as may be useful in carrying out the policy of this act. No other information known.



Sec. 1, 1/4 Sec. 2 T27N. R. 52E.

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

Signature of Appropriator. C. G. Glasscock

Date November 14, 1962

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

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

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

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

10487

STATE OF MONTANA, }
County of Richland, } ss. 285759
Filed this 17th day of
Dec. A. D. 1963
at 4:00 o'clock P. M.
D. L. Kooker
County Recorder
B. Atchison
Deputy

fee: \$2.00
filed

File No.

T. 27 N. R. 57 E.

DUPLICATE

County Richland

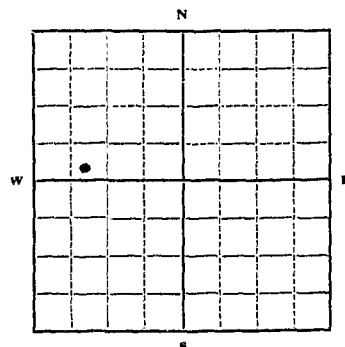
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights DEC 19 1963

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. C.G. Glasscock and Geraldine Glasscock, of Lawson, P.O. Box 419, Miles City,
(Name of Appropriator) (Address) (Town)
County of Custer State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 NW 1/4 Sec 32 T. 27 N. R. 57 E

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

2. The beneficial use on which the claim is based.....
Watering livestock and used in dwelling.

3. Date or approximate date of earliest beneficial use; and how con-
tinuous the use has been..... Has been used continuously
since 1922.

4. The amount of groundwater claimed (in miner's inches or 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
No irrigation

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

7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater..... 1922

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

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other
works for the withdrawal of groundwater.....
490 foot deep artesian well with 1 1/2" casing

10. The estimated amount of groundwater withdrawn each year..... Unknown, but flows 1 gallon per minute.

11. The log of formations encountered in the drilling of each well if available.....
Appropriator knows of no log formations, as well was drilled before present owner
purchased land.

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

Signature of Owner C.G. GlasscockSignature of Owner Geraldine Glasscock LawsonDate November 29, 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.

10492

STATE OF MONTANA, } ss. 285764
County of Richland,
Filed on 17th day of
Dec. A. D. 19 63
at 4:10 P. M.
C. L. Kooker
County Recorder
K. Atchison
Deputy

fee: \$ 2.00
filed

File No.

T. 27 N. R. 57 E.

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

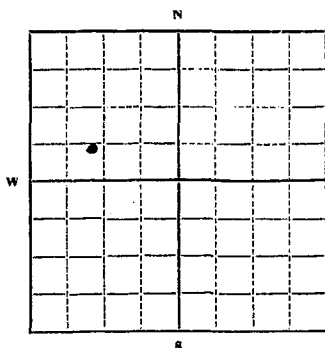
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
DEC 19 1963

STATE ENGINEER

1 C. G. Glasscock and Geraldine Glasscock Lawson of P. O. Box 419, Miles City,
(Name of Appropriator) (Address) (Town)
County of Custer State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 32 T. 27 N. R. 57 E

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

2. The beneficial use on which the claim is based.....
Watering livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been has been used continuously
since before 1922.

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
No irrigation

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....
Prior to 1922.

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

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.....
67 foot deep well with 6" casing

10. The estimated amount of groundwater withdrawn each year.....
Unknown, but pumps 2 gallons per minute

11. The log of formations encountered in the drilling of each well if available.....
Appropriator knows of no log formations, as well was drilled before present owner purchased land.

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

Signature of Owner

Signature of Owner Geraldine Glasscock LawsonDate October 29, 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.

10497

STATE OF MONTANA, } ss. 285769
County of Richland,

Filed this 17th day of
Dec. A.D. 1963
at 4:20 P.M.

C. L. Kooker
County Recorder

R. Atchison
Deputy

Fee: \$2.00

filed

County Richland Twp. 27 N Rge. 59

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
22	Narum Duncor	27 Well Log	265348	

22

T. 27 N R. 59 ECounty Richland

RECEIVED

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Duncor Narum Address Sidney
 Driller Andy Morko Address Sidney
 Date Started June 24 Date Completed 30-59
 Location: Sec. 22 T. 27 N R. 59 E $\frac{1}{4}$ sec. 1

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: 53 ft. to _____ ft. Type OD Size 6 in

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

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

Perforated or Screened: Ft. 45 to ft. 53 Ft. _____ to ft. _____

Type of screen or perforations cut with a cutting tool

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

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

Pumping water level 20 feet at _____ gal. per min. 15

How tested: Bailed

Length of test 2-17

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

(over)

GROUNDWATER INDEX

Page 1 of 9

County Richland Twp. 27N Rge. 59

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
22	Nathan Duxon	57 Mill Log	265348	

Log of Well

[illegible]

26548

SALE OF MEXICO

James G. Thompson

[illegible]

Omni

0.53

22

22

2010

...

10

100

8

[illegible]

10

Model	Model	Model	Model
Model 1	Model 2	Model 3	Model 4
Model 5	Model 6	Model 7	Model 8
Model 9	Model 10	Model 11	Model 12
Model 13	Model 14	Model 15	Model 16
Model 17	Model 18	Model 19	Model 20
Model 21	Model 22	Model 23	Model 24
Model 25	Model 26	Model 27	Model 28
Model 29	Model 30	Model 31	Model 32
Model 33	Model 34	Model 35	Model 36
Model 37	Model 38	Model 39	Model 40
Model 41	Model 42	Model 43	Model 44
Model 45	Model 46	Model 47	Model 48
Model 49	Model 50	Model 51	Model 52
Model 53	Model 54	Model 55	Model 56
Model 57	Model 58	Model 59	Model 60
Model 61	Model 62	Model 63	Model 64
Model 65	Model 66	Model 67	Model 68
Model 69	Model 70	Model 71	Model 72
Model 73	Model 74	Model 75	Model 76
Model 77	Model 78	Model 79	Model 80
Model 81	Model 82	Model 83	Model 84
Model 85	Model 86	Model 87	Model 88
Model 89	Model 90	Model 91	Model 92
Model 93	Model 94	Model 95	Model 96
Model 97	Model 98	Model 99	Model 100

Age Group	1990	1995	2000	2005
0-14	20	18	15	10
15-24	15	16	17	18
25-34	12	13	14	15
35-44	10	11	12	12
45-54	8	9	10	10
55-64	6	7	8	8
65+	4	5	6	6

The figure consists of four horizontal panels, each representing a different value of the parameter α . The vertical axis is labeled $P(x)$ and the horizontal axis is labeled x . The panels show the following distributions:

- Top Panel ($\alpha = 0$):** A single, symmetric peak centered at $x = 0$.
- Second Panel ($\alpha = 0.1$):** The central peak has slightly flattened, and small shoulders have appeared.
- Third Panel ($\alpha = 0.2$):** Two distinct peaks have emerged, moving away from the center towards $x \approx -1$ and $x \approx 1$.
- Bottom Panel ($\alpha = 0.3$):** The two peaks are well-separated and have increased in height compared to the previous panel.

Age Group	Education Level	Percentage (%)
18-29	High School	~75
	College	~85
	Graduate	~90
30-49	High School	~70
	College	~80
	Graduate	~85
50-69	High School	~65
	College	~75
	Graduate	~80
70+	High School	~60
	College	~70
	Graduate	~75

Age Group	1997 (%)	2001 (%)
18-29	85	80
30-49	80	75
50-69	75	70
70+	70	65

[illegible][illegible]

© 2000 Blackwell Science Ltd, *Journal of Internal Medicine* 247: 395–401

10

1000

[illegible]

T. 26 N. R. 51 E
County Richland

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER

Owner John W. Beck Address Taplan

Driller Simpson Drilling Co. Address Malta

Date Started Nov 2 - 60 Date Completed Nov 3 - 1960

Location: Sec. 2 T. 26 R. 57 1/4 sec. NW - NE

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

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

Casing: 6 ft. to 70 ft. Type steel Size 4"

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

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

Perforated or Screened: Ft. 6.0 to ft. 6.2 Ft. _____ to ft. _____

Type of screen or perforations 3/16 holes drilled in casing

Static Water level, for non-flowing well: 3.5 feet.

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

Pumping water level 4.5 feet at 8 gal. per min.

How tested: bailey

Length of test 1/2 hr.

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

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	52	Sand
52	66	Sand-gravel-water
66	70	gray shale

270897

STATE OF MONTANA,
 County of Richland,
 ss. 270897
 Filed this 7 day of February A.D. 1961.
 at 11:22 o'clock P.M.
 S.A. Kuhn
 County Recorder
 R. Sullivan Deputy
in the file

File No.

T. 26^N R. 51^E

DUPLICATE

County Richland

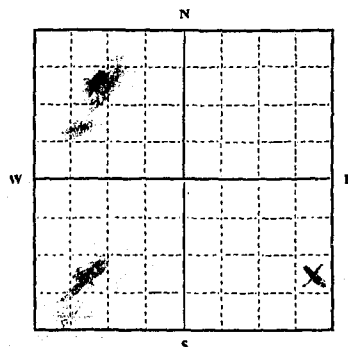
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

JAN 10 1964

Henry J. & Agnes M. Ebel, of Poplar, Mont.
(Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Sec. 6 T26 R51
Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based. livestock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. August 1961
used in summer months since
4. The amount of groundwater claimed (in miner's inches or gallons per minute). 15 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
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. one
motor & pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. August 1961
8. The depth of water table. 55 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. drilled 6" casing (steel)
60 feet deep
10. The estimated amount of groundwater withdrawn each year. 18,000
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

Henry J. Ebel
Agnes M. Ebel
Date 2-27-63

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.

2937

136
56
37

286041
STATE OF MONTANA, } ss. 286041
County of Richland,
Filed this 27 day of
December A. D. 1963
at 11:57 Clerk, P. M.
E. K. Kasper
County Recorder
E. Cook
Deputy

for \$200
fine

File No.

T. 26 N R. 51 ECounty Richland

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

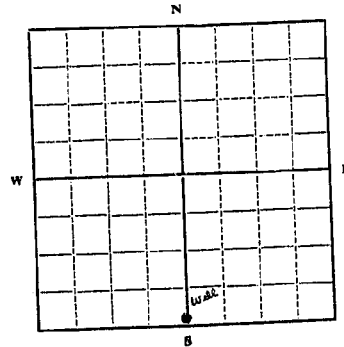
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
SEP 5 1963

STATE ENGINEER

1. Sarah Woods, of RT #1 Poplar
(Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



S.E. $\frac{1}{4}$ Sec. 7 T. 26 N. R. 51 E.

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

2. The beneficial use on which the claim is based.....Domestic
3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....1916 since 1916
4. The amount of groundwater claimed (in miner's inches or gallons per minute).....1.0 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.....Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....1916
8. The depth of water table.....70 ft.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.....Drilled well - 6 inch casing - 212 ft. depth
10. The estimated amount of groundwater withdrawn each year.....1,825,000 gallons
11. The log of formations encountered in the drilling of each well if available.....Fay Hill Sandstone at the base of the Tame 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 if any county record.....Not Available

Signature of Owner.....Sarah Woods

Date.....Sept. 4, 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 Quaduplicate for the Appropriator.

5907

STATE OF MONTANA, } ss. 284320
County of Richland,

Filed this 4th day of
Sept A. D. 19 63
at 2:47 o'clock, P.M.

B. L. Kooker
County Recorder
R. Atchison
Deputy

fee: \$2.00
filed

File No. _____

DUPLICATE

T. 26 N. 5 R.County Richland

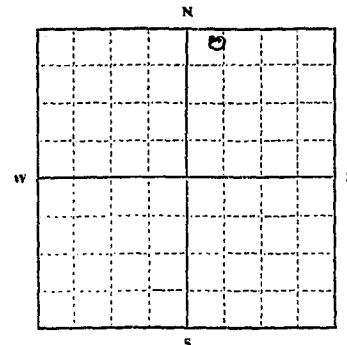
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1964

Declaration of Vested Groundwater Rights. — ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Frank J. Marattik, of Box 692 Poplar
(Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec 11 T. 26 R. 5-1

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 1950 all the time

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Summer 1950

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 drilled 6 inch 48 ft

10. The estimated amount of groundwater withdrawn each year 12,000,000 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 available

Signature of Owner Frank J. Marattik

Date Dec 30 1963

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

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

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

2986

286568

County of ... 286568

Filed this 31 day of

Dec. 1963

at 12:48 o'clock P.M.

C. L. Kooker

County

R. Atchison

Deputy

fee: 200
filed

File No.

T. 26 N 51 E

DUPLICATE

County.

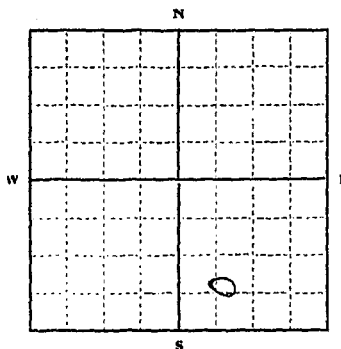
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Frank J. Marottek, of Box 692 Poplar
(Name of Appropriator) (Address) (Town)
County of Fishland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

SW 1/4 SE Sec. 13 T. 26 R. 51

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 1910 all the time
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 7 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 no
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal windmill
7 gas motor

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1910 summer
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 drilled 6 inch 60 ft
10. The estimated amount of groundwater withdrawn each year 260 000 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 available

Signature of Owner Frank J. MarottekDate 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.

29860

STATE OF MONTANA, }
County of Richland, } ss. 286 567
Filed this 31 day of
Dec. A. D. 19 63.
at 12:47 o'clock, P. M.
E. L. Koken
County Recorder
R. Atchison
Deputy

for: 200

filed

File No.

T. 26 N. 51 E

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

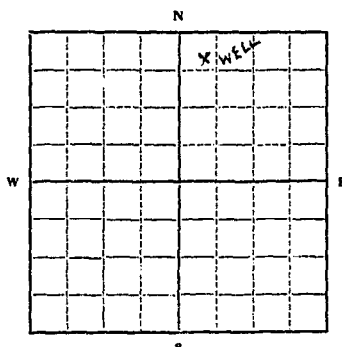
RECEIVED
SEP 5 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. William J. Hawks, of Rt. #1 Poplar
(Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 NE Sec. 17 T. 26 R. 51

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
3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....1918 since 1918
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.....Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....1918

8. The depth of water table.....70 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.....Drilled well, 6 inch casing, 212 ft. depth

10. The estimated amount of groundwater withdrawn each year.....1,825,000 gallons

11. The log of formations encountered in the drilling of each well if available.....For bit. sands at the base of the Lance 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.....Not Available

Signature of Owner.....William J. HawksDate.....September 4, 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.

STATE OF MONTANA } ss. 284219
County of Richland, }
Filed this 4th day of
Sept. A. D. 19 1902
at 2:45 o'clock, P. M.
E. L. Kroger
County Recorder
R. Atchison
Deputy

fee: \$2.00
filed

RECORDED
INDEXED

GW

Approved Stock Form—State Publishing Co., Helena, Montana—38496

File No.

T. 26 N 51 E

DUPLICATE

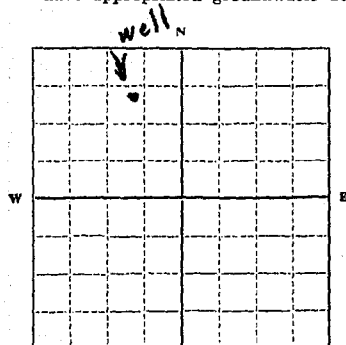
County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. William Voorhees Jr. of RR. I Poplar
(Name of Appropriator) (Address) (Town)
County of Richland State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE $\frac{1}{4}$ Sec. 19 T. 26 R. 51

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

2. The beneficial use on which the claim is based Livestock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1918 TO PRESENT
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 GAS MOTOR
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1918 FINISHED 1918
8. The depth of water table 200 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 Drilled 280 FT. 5 inch casing
10. The estimated amount of groundwater withdrawn each year 3,650,000 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 None

Signature of Owner

Wm Voorhees Jr.Date 12-31-63

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

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

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

29977

STATE OF MONTANA, } ss. 286683
County of Richland, }

Filed this 31 day of
December A.D. 1963
at 2:43 o'clock P.M.

G. L. Hapkins
County Recorder
John L. Linder
Deputy

for 200-
Filed

GV: *not signed*

File No. _____

DUPLICATE

T. 26 [✓] R. 51 ^F

County. Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

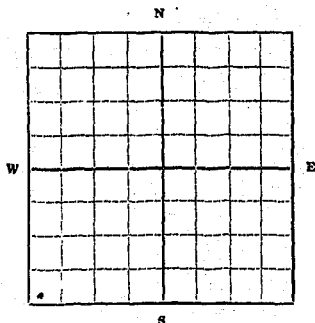
RECEIVED

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. LEONARD W. ALEXANDER and ELEANORA E. ALEXANDER of Route 1, Poplar,
(Name of Appropriator) Husband and Wife (Address) (Town)
County of Richland, State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 20 T. 26 R. 51

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, all-purpose well
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Completed 2-4-58, with continuous use
4. The amount of groundwater claimed (in miner's inches or gallons per minute) Five 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 Submersible Electric Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commenced 1-27-58; Completed 2-4-58
8. The depth of water table 262 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 Approximately 298 feet, 6 inch casing
10. The estimated amount of groundwater withdrawn each year Unknown
11. The log of formations encountered in the drilling of each well if available See log attached
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 May 11, 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.

STATE OF MONTANA, } ss. 276700
County of Richland,

Filed for Record

this 11 day of May
A. D. 1912 at 3:10 o'clock P. M.
and duly recorded in volume

page
Records of Richland County, Montana

E. H. Zander
County Recorder

A. Sullivan
Deputy

Filed

Filed

T. 26N R. 37E 20

County.....

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Mr. Leonard Alexander Address Wolf Point, Montana

Driller A & R Drilling Co. Address Seehey, Montana

Date Started 1/27/58 Date Completed 2/4/58

Location: Sec..... T..... R..... $\frac{1}{4}$ sec.....

Type of well..... Drilled Equipment used Cable tool drilling machine
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other:.....

Casing: 0 ft. to 270 ft. Type steel, tar coated Size 6"

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

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

Perforated or Screened: Ft. none to ft..... Ft..... to ft.....

Type of screen or perforations.....

Static Water level, for non-flowing well:..... 162 feet.

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

Pumping water level..... 278 feet at..... 5 gal. per min.

How tested:..... bailer

Length of test.....

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

(over)

Log of Well

[illegible]

File No. _____

T. 26N R. 51E

Original

County RICHLAND

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 13 1962

DECLARATION OF VEASED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Sessions Laws 1961) STATE ENGINEER

1. Shell Oil Company of P. O. Box 2547 Billings
(Name of Appropriator) (Address) (Town)

County of Yellowstone State of Montana
have appropriated ground water according to the Montana Laws in effect prior to
January 1, 1962 as follows:

NW 1/4 Sec 29 T26N R51E
Indicate point of appropriation and place of use, if possible. Each small square represents 30 acres.

2. The beneficial use on which the claim is based
Supply water for oil well drilling

3. Date of appropriation and of earliest beneficial use; and how continuous the use has been May 1952
*

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 20 gals/min +

5. If used for irrigation give the acreage and description of the lands to which water has been applied and name of 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
Motor driven pump.

7. The date of commencement and completion of the construction of the well, wells or other works for withdrawal of ground water Started May 1952. Comp. May 1952

8. The depth of water table 300' ±

9. So far as it may be available, the type, size and depth of each well or the general specification of any other works for the withdrawal of groundwater
9" hole to 192' 6-5/8" cas. at 192' Perf. 358-192' Pump depth 385'

10. The estimated amount of groundwater withdrawn each year

11. The log of formations encountered in the drilling of each well if available
Fox Hills Sand 340' Bear Paw shale 488'

12. Such other information of a similar nature as may be useful in carrying out the policy of this act indicating reference to book and page of any county record
* This well used for drilling one well only.

Signature of Owner A. J. Jansen
Shell Oil Company
Date February 5, 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.

STATE OF MONTANA

County of Yellowstone

ss

A. T. Ireson having first been duly sworn, depose
and say that he is of lawful age and is the appropriator
for Shell Oil Co. and claimant of the order and water right mentioned
in the foregoing declaration of vested groundwater rights and the person
whose name is subscribed thereto, as the appropriate person
and claimant, that he knows that the
contents of said foregoing notice and that the matters and things therein stated
as true.

Subscribed and sworn to before me, this 5th day of February 1962

Margaret W. Haag
Notary Public for the State of Montana

Residing at Billings, Montana

My Commission expires March 30, 1962

275253

STATE OF MONTANA, ss.
County of Richland,

Filed this 9 day of

February A. D. 1962

11:58 o'clock, A. M.

E. L. Hooker

County Recorder

E. Shewley

Deputy

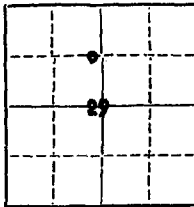
9:20

Filed

T. 26 N R. 51 E

County. RichlandMONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner. SHELL OIL COMPANY Address. P. O. Box 2547
Billings, Montana

Driller. Address.

Date Started. May 1952 Date Completed. May 1952Location: Sec. 29 T. 26 N R. 51 E $\frac{1}{4}$ sec. NorthwestType of well. Drilled Equipment used. Churn drill
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐Industrial ☒ Drainage ☐ Other:Casing: 0 ft. to 452 ft. Type. 17# Size. 6-5/8"

Casing: ft. to ft. Type. Size.

Casing: ft. to ft. Type. Size.

Perforated or Screened: Ft. 348 to ft. 482 Ft. to ft.Type of screen or perforations. Turnh perforated

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)

Larkin packer at 321'salinity 1449 ppmRECEIVED
JUN 11 1952

STATE ENGINEER

(over)

20
20
20
20
20

File No.

XS-30 R. T. 26 R. 51

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

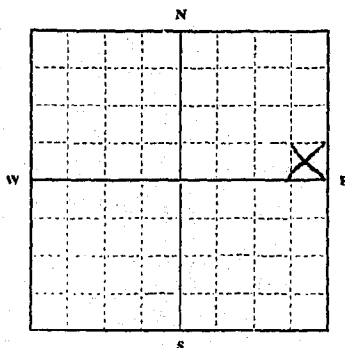
RECEIVED
DEC 26 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Victor Strommer, of Poplar
(Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec 30 T26 R51

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

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

3. Date or approximate date of earliest beneficial use; and how continu-
ous the use has been. 1915

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

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

6. The means of withdrawing such water from the ground and the loca-
tion of each well or other means of withdrawal.....
cylinder pump
NE 1/4 Sec. 30, Twp. 26, Rge. 51 E.

7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater. 1915

8. The depth of water table..... 15 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 with 2 foot steel casing 20 foot depth

10. The estimated amount of groundwater withdrawn each year..... 1,825,000

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. Not previously recorded

Signature of Owner... VICTOR STROMMERDate... December 18, 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.

12626

285878

STATE OF MONTANA, } ss. 285878
County of Richland, }

Filed this 20th day of
December 1963
at 4:20 o'clock P.M.

6 L. Hooker
County Recorder
Heber Henke
Deputy

Fee \$2.00
Filed

G

File No.

DUPLICATE

T 26 N R 51 E

County Richland

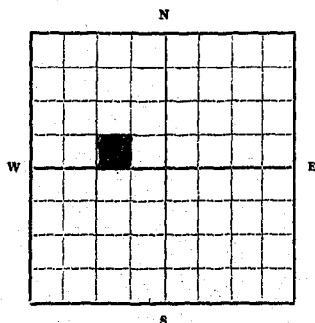
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 26 1968

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

STATE ENGINEER

1. Victor Strommer of Poplar Montana
(Name of Appropriator) (Address) (Town)
County of Richland 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
Household, livestock and garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
July, 1958 - continuous

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
submersible pump
W. Sec. 30, Twp. 26, N. Rge. 51 E.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
July, 1958

8. The depth of water table
268 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 with 5 inch steel casing 311 foot depth

10. The estimated amount of groundwater withdrawn each year
182,500 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
Not previously recorded

Signature of Owner VICTOR STROMMER

Date December 18, 1963

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

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

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

12629

285881

STATE OF MONTANA, } ss. 285881
County of Richland,

Filed this 20th day of

December A.D. 1963

at 4:23 o'clock P.M.

E. L. Kasper

County Recorder

John Burke

Deputy

for \$2.00
filed

File No.

DUPLICATE

T. 26 N. R. 51 E.

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 26 1963

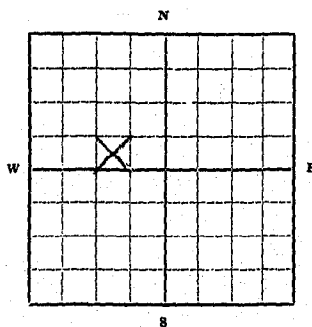
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1963)

STATE ENGINEER

1. Victor Strommer, of Poplar
(Name of Appropriator) (Address) (Town)

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



NW $\frac{1}{4}$ Sec. 30 T. 26 R. 51

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

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

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

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
cylinder pump
W $\frac{1}{2}$ Sec. 30, Twp. 26, N. Rge. 51 E.

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

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
Drilled well with 12 inch clay pipe casing 28 foot depth

10. The estimated amount of groundwater withdrawn each year 1,825,000

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 Not previously recorded

Signature of Owner VICTOR STROMMER

Date December 18, 1963

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

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

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

12628

STATE OF MONTANA, } ss. 48 5880
County of Richland,

Filed this 30th day of
December A.D. 1963
at 4:31 o'clock P.M.

E. L. Hooker
County Recorder
Helen Durke
Deputy

fee \$⁸2.⁰⁰
filed

File No.

T. 26 N. 51 E.

DUPLICATE

County Richland

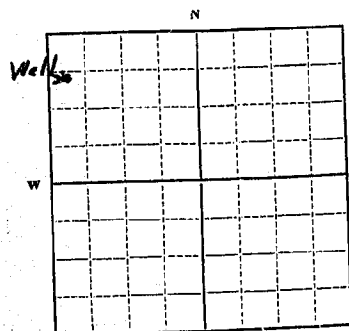
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. William Voorhees Jr., of R.R. I Poplar
(Name of Appropriator) (Address) (Town)
County of Richland State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4
NW 1/4 31 Sec. T. 26 N. 51 E.

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

2. The beneficial use on which the claim is based Livestock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1955 To Date
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
NOT USED
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 1955 FINISHED 1955
200 FT.
8. The depth of water table
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 300 FT. 5 INCH CASING
10. The estimated amount of groundwater withdrawn each year 4,000,000 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
NONE

Signature of Owner

Date 12-31-63

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

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

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

29976

STATE OF MONTANA, } ss. 286682
County of Richland,
Filed this 31 day of
December D. 1963
at 2:30 o'clock P. M.
E. L. Koster
County Recorder
Helene Dierke
Deputy

Fee 2.00
Filed

GV

Approved Stock Form—State Publishing Co., Helena, Montana—38496

File No.

T. 26 N. R. 5-1 E. 31

DUPLICATE

County. Richland

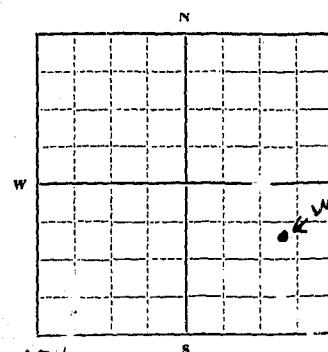
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

William Voorhees JR. of P.R.I. Poplar
(Name of Appropriator) (Address) (Town)
County of Richland State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4
SE 1/4 Sec. 34 T. 24 R. 5

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

2. The beneficial use on which the claim is based.....
Livestock
3. Date or approximate date of earliest beneficial use, and how continuous the use has been.....
1960 to date
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.....
NOT USED
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....
GASOLINE MOTOR
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....
1960 Done 1960
8. The depth of water table.....
100
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 160 FT Cased 6 INCH
10. The estimated amount of groundwater withdrawn each year.....
300 000 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.....
NONE

Signature of Owner

Date 12-31-63

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

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

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

29975

STATE OF MONTANA, } ss. 286687
County of Richland,

Filed this 31 day of
December 1963
at 2:46 o'clock P.M.

6. L. Koskar
County Recorder
John L. Koskar
Deputy

Page 2
filed

File No.

T. 26 N R. 51 E

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

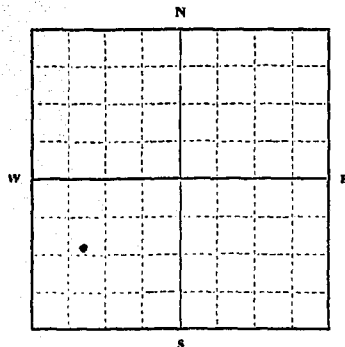
RECEIVED
DEC 27 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

Frank Hinhofer of Poplar Montana
(Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



S. 26 Sec. 33 T. 26 R. 51

Indicate point of appropriation and place of use, if possible. Each small square represents 1/4 acres.

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
Sept. 14, 1948 use daily

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
Sept 12, 1948

8. The depth of water table
60 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
6 in. steel casing completed depth 148 ft.

10. The estimated amount of groundwater withdrawn each year
2,190,000 gallon yr

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

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

Signature of Owner Frank Hinhofer
Date Dec. 20, 1963

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

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

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

13686

STATE OF MONTANA, }
County of Richland, } ss 285973
Filed this 26 day of
Dec. A.D. 1963
at 11:05 clock A. M.
E. L. Kooker
County Clerk
R. Atchison
Deputy

fee: \$ 2.00

filed

File No.

T26N R51E

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

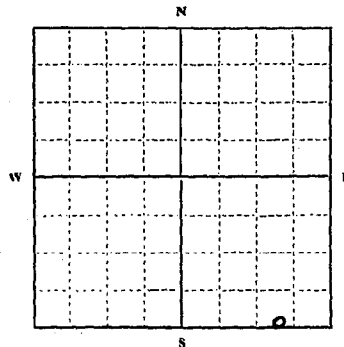
RECEIVED
DEC 23 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Johnnie Johnston, of Poplar (Town)
(Name of Appropriator) (Address)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Sec. 34. 1/4 Sec. 34. T26N R51E

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.....
1956

4. The amount of groundwater claimed (in miner's inches or gallons per minute).....
15 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.....
None

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....
1956

8. The depth of water table.....
102 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.....
Drilled 5" casing

10. The estimated amount of groundwater withdrawn each year.....
800,000 gals per year

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.....
None available

Signature of Owner Johnnie JohnstonDate 12-18-63

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.

11893

STATE OF MONTANA, } ss. 285821
County of Richland,

Filed this 18 day of

Dec A D 19 63

3:30 o'clock P. M.

E. L. Karker

D. Sullivan

Deputy

per # 210

filed

File No.

DUPLICATE

T. 26N R. 51E

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

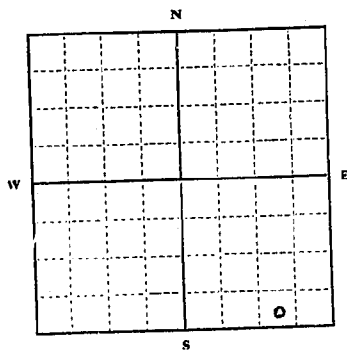
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
DEC 23 1963

STATE ENGINEER

1. Johnnie Johnston, of Poplar Mount (Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Sec. 34, T. 26N R. 51E

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 water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been
1954 continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute)
8 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
None
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
1954
8. The depth of water table
36 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
Drilled 5" casing
10. The estimated amount of groundwater withdrawn each year
200,000 gals per year
11. The log of formations encountered in the drilling of each well if available
None available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record
None available

Signature of Owner Johnnie Johnston
Date 12-18-63

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.

11894

285822

STATE OF MONTANA,
County of Richland,

285822

Filed this 18 day of

Dec. A D. 19 63

at 3:32 o'clock, P. M.

E. L. Karker
County Registrar

W. Sullivan
Deputy

per 2820
J. L. L.

File No.

T. 26 N. R. 5. E.

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

MAR 2 1964

Top of Ground

(Elev. above sea level 2525)

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

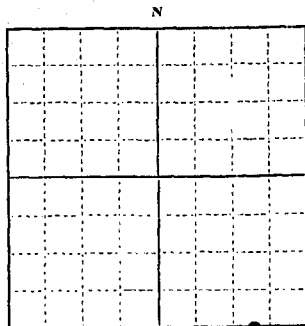
Owner Johnnie Johnston Address Poplar, Mont.Driller Darby C. Whitmer Address Blanchfield, Mont.

Date of Notice of Appropriation of Groundwater

Date well started Nov. 29, 1963 Date Completed Nov. 29, 1963Type of well Drilled Equipment Used Drill
(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)
8"	6"	Top	38'	8"	22'	38'
	Standard 6" N.P.	22'	to Bottom	Slot 8" to 1" wide	Down	on Bottom
		Sand & clay				



SE 1/4 Sec. 34, T. 26 N. R. 5. E.

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

Show exact depth of bottom.

Static Water Level for non-flowing Well 22' feet.Shut-in Pressure for Flowing Well Does not FlowPumping Water Level 22 feet at 1.0 gal. per minute.Discharge in gal. per min. of flowing well Does not FlowHow Tested Baker Length of Test 2 1/2 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) Can beused for irrigation, good water107
Driller's License Number

Darby C. Whitmer
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.

35039.

STATE OF MONTANA, } ss. 297750
County of Richland,

Filed this 28 day of
Feb A. D. 19 64
at 2:10 o'clock, P. M.

E. L. Kader
County Recorder
R. Stinson
Deputy

fee: \$2.00
filed

File No.

S24 R. T. 26 N. R. 51 E 30

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

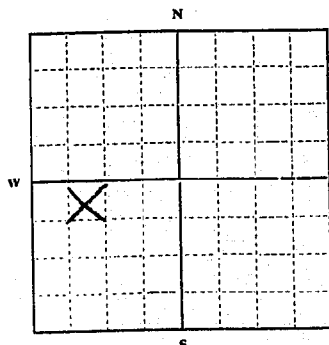
DEC 26 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Victor Strommer, of Poplar
(Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 34 T. 26 R. 51

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

2. The beneficial use on which the claim is based.....
Household and livestock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....1914
4. The amount of groundwater claimed (in miner's inches or gallons per minute).....5 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.....None
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....
Cylinder pump
SW 1/4 Sec. 34, T. 26, R. 51 E.

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.....28 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 with 5-inch steel casing, 42 foot depth
10. The estimated amount of groundwater withdrawn each year.....1,825,000 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 previously recorded

Signature of Owner.....VICTOR STROMMERDate.....December 18, 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.

12627

STATE OF MONTANA, } ss. 285879
County of Richland,

Filed this 20th day of
December A.D. 1963
at 4:29 o'clock P.M.

W. J. Hood
County Recorder
W. J. Duke
Deputy

for 2⁰⁰
filed

GW 3

Approved Stock Form—State Publishing Co., Helena, Montana—42262

File No.

T. 26 N. R. 51 E.

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 1 1964

**Notice of Completion of Groundwater Appropriation
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater

Owner Kerner King Address Poplar

Contractor (if any)

Address of Contractor

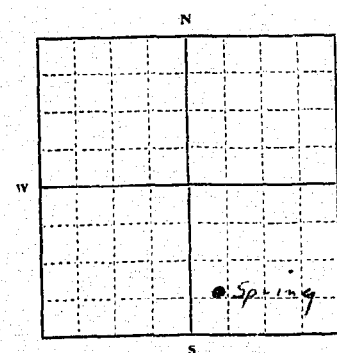
Date Started Date Completed

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

piped into Tank

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.

Will water 100 HeadCattle during SummerMonthsSignature of Owner Kerner KingDate Dec 28 1963

SE 1/4 Sec 25 T26 R51

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

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.

29544

286245

STATE OF MONTANA,
County of Richland,

FILED 30 day of
December A.D. 1962

at 2:44

E. L. Rogers
County Clerk

Heber Duerke
Deputy

for \$2.00

filed