

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

T. 24 N. R. 29 E

DUPLICATE

County Phillips

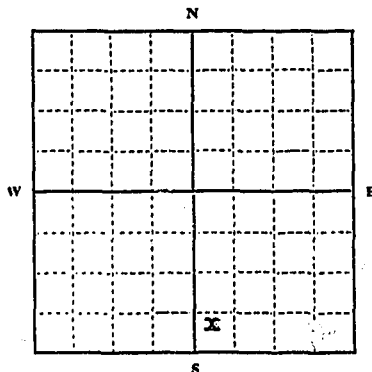
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECORDED  
JAN 27 1964

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Richard Pankratz, of Malta (Town)  
(Name of Appropriator) (Address)  
County of Phillips 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. 17 T. 24 R. 29

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

2. The beneficial use on which the claim is based Domestic and stock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been about 1920 continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 gallons per min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal hand pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater about 1920
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 Drilled, 6 in. casing, 140 ft. deep
10. The estimated amount of groundwater withdrawn each year 900,000 gallons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

Signature of Owner /s/ Richard Pankratz

Date Dec. 31, 1963

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

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

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

Misc 16039

237067

Phillips Co.

Filed 12-31-63.

at 11:10 A.M.

Fee \$2.00.

R. V. Maloney

Clerk & Recorder.

File No. ....

T. 24 N. R. 29 E.

DUPLICATE

County Phillips

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

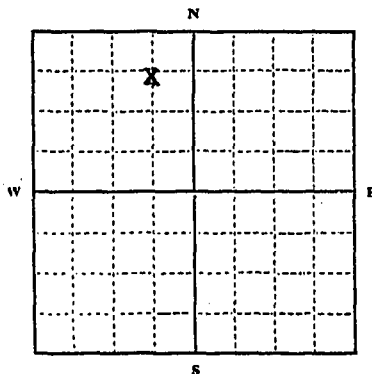
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
AUG 28 1963

STATE ENGINEER

1. MONS. VESETH, of Regina  
(Name of Appropriator) (Address) (Town)  
County of Phillips State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NENE 1/4 Sec 24 T 24 R 29

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 watering purposes

3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been 7-1-48

4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 50 gpm

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater..... Began July 1, 1948, finished July 10, 1948

8. The depth of water table..... 140-180

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..... 797 feet deep

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

11. The log of formations encountered in the drilling of each well if available..... clay, rocks, brown  
clay, blue clay, shale, sandstone, rock, blue shale, shaley sandstone,  
sandy shale, sandstone, sandy shale, better sandstone, sandy shale,  
hard layer, sandy gray shale, sandstone, rock, sandstone, sandy shale,  
sandstone, shale, rock, sandstone & shale layers and mostly sandstone

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 August 23, 1963

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

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

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

5569

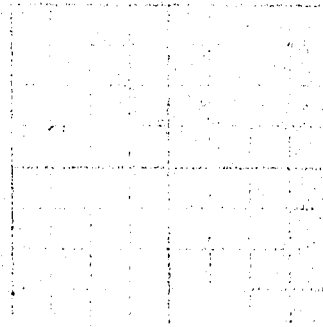
Misc # 15420

235354

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

\* Filed for Record this 27 day  
of Aug A. D. 1963 at 10:45  
o'clock A.M. and duly Recorded in book

Page ..... of .....  
By Rosalene M. Maloney, recorder  
Fee \$ 2.00  
Returns.....



NOT A PUBLIC RECORD  
This document is not a public record and is not to be released to the public without the express written consent of the person or entity who created it.  
If you are a person or entity who has created a document that is not a public record, you should mark it as "NOT A PUBLIC RECORD" to prevent its release to the public.  
If you are a person or entity who has received a document that is not a public record, you should not release it to the public without the express written consent of the person or entity who created it.

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

T 24 N R 29 E

DUPLICATE

County Phillips

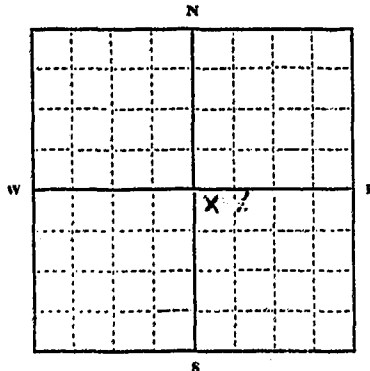
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 27 1964  
STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Richard Pankratz, of Malta, Mont.  
(Name of Appropriator) (Address) (Town)  
County of Phillips State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 30 T. 24 N. R. 29 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 & stock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been about 1920 continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 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
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal windmill & pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater about 1920
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 Drilled, 6 in. steel casing, 140 ft. deep.
10. The estimated amount of groundwater withdrawn each year 900,000 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

Signature of Owner /s/ Richard Pankratz

Date Dec 31, 1963

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

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

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

33965

Min 16040  
237068

Phillips Co.

Filed 12-31-63.

at 11:11 A.M.

Fee \$ 2.00.

R.V. Maloney

Clerk & Recorder.

## GROUNDWATER INDEX

Page 1 of 1

County Phillips Twp. 24 N Rge. 30 E

[illegible]

File No. ....

T. 24 N. R. 30 E.

DUPLICATE

County Phillips

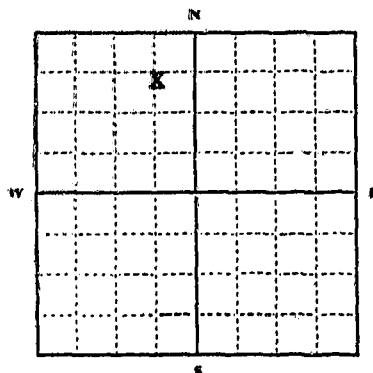
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
AUG 28 1963  
STATE ENGINEER

1. MONS VESETH, of Regina,  
(Name of Appropriator) (Address) (Town)  
County of Phillips State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 21 T. 24 R. 30

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 watering purposes
3. Date or approximate date of earliest beneficial use; and how continuous the use has been..... August 20, 1957
4. The amount of groundwater claimed (in miner's inches or gallons per minute)..... 50 gpm
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.....  
.....  
.....
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....  
pumps
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater..... begun August 7, 1957, completed August 20, 1957
8. The depth of water table..... 30 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..... 765 feet deep, 4 inch casing
10. The estimated amount of groundwater withdrawn each year.....
11. The log of formations encountered in the drilling of each well if available..... sandy grey clay, sand gravel, sand, some rocks, sand, bear paw shale, grey shale, sandstone, grey shale, rock layer, sandstone, rock layer, sandstone, grey shale, sandstone, grey shale, sandstone, blue shale, sandstone, sandy grey shale, sandstone, rock layer and sandstone
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 August 23, 1963

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

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

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

5567



Miss # 15418

235352

State of Montana, } ss.  
County of Phillips,

Filed for Record this 27 day  
of Aug. A. D. 1963 at 10:35  
o'clock A.M. and duly Recorded in book

Page ..... of .....  
Rosaline M. Maloney Recorder

By .....

Fee \$ 2.00 .....

Return: .....

T. 24 N R 30 E 21  
County Phillips

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
AUG 28 1963

WATER WELL LOG

STATE ENGINEER

	X		

Owner Hans Yeath Address Regina, Montana  
Driller R. C. Simpson Address Malta, Montana  
Date Started August 7, 1957 Date Completed August 20, 1957  
Location: Sec. 31 T. 24 N R. 30 E 1/4 Sec. 21 NE 1/4 NW 1/4

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: 0 ft. to 755 ft. Type \_\_\_\_\_ Size 4 inch

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

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

Perforated or Screened: Ft. 585-640 to ft. 670-750 Ft. 752-765 to ft. \_\_\_\_\_

Type of screen or perforations drilled 1/2 inch holes

Static Water level, for non-flowing well: \_\_\_\_\_ 30 feet.

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

Pumping water level 105 feet at 10 gal. per min.

How tested: hailer

Length of test 2 hours

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	10	sandy grey clay
10	15	sand gravel
15	25	sand some rocks at 25 feet
25	65	sand
65	385	bear paw shale
385	425	gray shale ( Judith river formation
425	440	sandstone
440	445	gray shale
445	447	rock layer
447	448	sandstone
448	450	rock layer
450	480	sandstone
480	490	gray shale
490	508	gray shale
508	548	sandstone
548	555	gray shale
555	575	sandstone
575	585	blue shale
585	640	sandstone
640	670	sandy grey shale
670	750	sandstone
750	752	rock layer
752	765	sandstone

T. 24 R. 30 32

County Phillips

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER

	32	
		X

Owner WADE MCNEIL Address REGINA, MONTANA

Driller R. C. SIMPSON Address MALTA, MONTANA

Date Started Sept. 1, 1945 Date Completed Oct. 8, 1945

Location: Sec. 32 T. 24 R. 30 1/4 sec. NE 1/4

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

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

Casing: 398 ft. to 398 ft. Type heavy Size 4"

Casing: 521 1/2 ft. to 853 ft. Type heavy Size 3"

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

Perforated 40 ft. to 570 ft. to 610 ft.

~~Perforated~~ 40 720 760

Static Water level, for non-flowing well: 10' below surface in 1961 feet.

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

Pumping water level 50 feet at 5 gal. per min.

How tested: With cylinder pump

Length of test Over period of 16 years

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

Water level stayed at the surface until 1959 but never flowed, but has  
dropped 10' in the last two years.

(over)

**Log of Well**

Depth, feet		Description of Material Drilled
From	To	
0	12	Sand, brown clay, some gravel at 10'-12'.
12	40	Dark shale, some water at 40'.
40	360	Dark Shale
360	383	Lighter gray shale.
383	385	Sandstone, water.
385	400	Shaley sandstone
400	408	Light blue shale sandy.
408	412	Rock Layer
412	427	Gray sandy shale
427	430	Rock
430	460	Shaley sandstone
460	480	Gray Shale
480	488	Darker gray shale
488	545	Blue shaley sandstone, shale layers, water
545	552	Tan to brown shale
552	580	Sandy gray shale
580	595	Sandstone, Water
595	600	Tan shale turning to brown
600	620	Brown shale
620	624	Sandy shale
624	630	Light brown shale
630	635	Light gray shale
635	642	Light brown shale
642	670	Sandy gray and tan shale
670	685	Green-gray shale
685		Crust of rock
685	720	Sandy gray & tan shale
720	726	Brown shale
726	734	Sandstone, water
734	740	Shale
740	770	Sandstone in tan shale layers
770	772	Light brown shale
772	788	Dark brown shale
788	820	Sandstone
822	823	Tan shale
823	840	Shaley sandstone
840	853	Shale, dark shale resembling the bear paw formation.

min # 15128

220950

State of Montana, } ss  
County of Phillips,  
Filed for Record this 31 day  
of Oct. A. D. 1961 at 1:30  
o'clock P.M. and duly Recorded in book  
Page of  
By Joseph J. Quigley Recorder  
Fee \$4.00  
Returns

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

T. 24 N. 30 E.

DUPLICATE

County Phillips

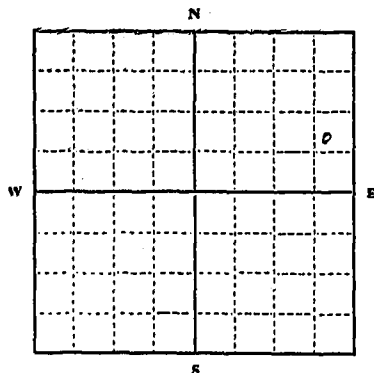
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 26 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Wade McNeil, of Regina, (Name of Appropriator) (Address) (Town)  
County of Phillips State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec 32 T24 R30

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 live stock and house hold

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Oct 6 - 1945  
continuous

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
not used for irrigation

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Oct 6 1945

8. The depth of water table. 10' below surface to water level

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 4" heavy casing Depth 853'

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

11. The log of formations encountered in the drilling of each well if available. dark shale to 383 sandstone and water to 400' shale & layers of rock to 580' sandstone & water to 600' shale to 726' sandstone & water to 734' shale to 788' sandstone & water to 820' shale to 853'

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. Wade McNeil

Date. Dec 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.

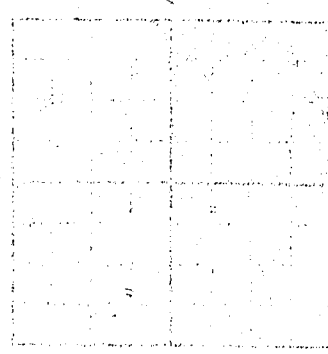
Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

12488

man # 15612

STATE OF MONTANA  
COUNTY OF PHILLIPS

236546



State of Montana, } ss.  
County of Phillips, }  
Filed for Record this 23 day  
of Dec 1913 at 2:35  
o'clock P.M. and duly recorded in book  
Page 1 of 1  
By Rosalind M. Med. County Recorder  
Fee 2.00  
Return.....

## Page 4 of 4

[illegible]



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

DUPLICATE

*Flowing Well*

T. 24 R. 31

County Phillips

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

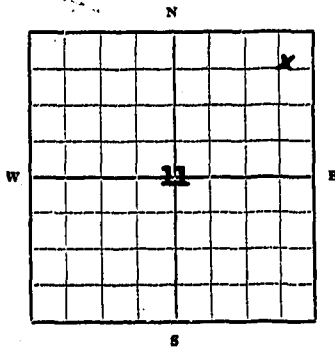
RECEIVED  
MAY 9 1962

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. John R. Armington & Alma C. of Malta,  
(Name of Appropriator) (Address) (Town)  
County of Phillips State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 11 T. 24 R. 31

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 & Stock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been XXXXX September 12, 1944  
Continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 4 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 No
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Flowing well (Artesian)
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater August 21, 1944 and finished September 12, 1944
8. The depth of water table Flowing well (artesian)
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Artesian, 1 1/2 inch steel pipe depth is 714 ft
10. The estimated amount of groundwater withdrawn each year One million gals
11. The log of formations encountered in the drilling of each well if available  
0-35 sandy brown clay 250-470 slightly grey shale 545-555 sandstone water  
35-38 sandy clay & gravel 470-470 1/2 rock layer 555-570 shale  
38-149 blue shale 470 1/2-515 tan-colored shale 570-580 shaley sandstone  
149-250 blue grey shale 515-545 brown shale 580-640 tan sandy 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 None

11. (Con't.)

640-650 sandstone 680-692 sandy grey shale  
650-655 brown shale 692-714 sandstone  
655-680 sandstone

Signature of Owner

*John R. Armington*  
*Alma C. Armington*

Date May 7, 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.

misc # 15248

231663

State of Montana, } ss.  
County of Phillips.

Filed for Record this 7 day  
of May, A. D. 1962 at 2:45  
o'clock P.M. and duly Recorded in book

Page of  
Rosaline M. Meloney order

By

Fee 62.00

Return

RECEIVED  
MAY 11 1962  
COUNTY CLERK  
PHILLIPS COUNTY  
MONTANA

RECEIVED  
MAY 11 1962  
COUNTY CLERK  
PHILLIPS COUNTY  
MONTANA

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

DUPLICATE

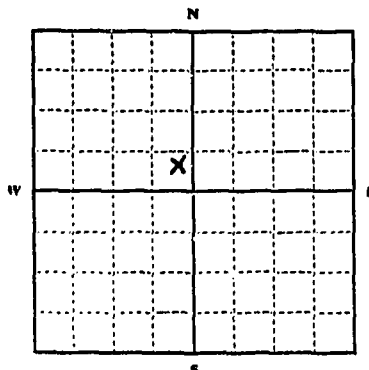
T. 24 N 34 E 15  
 County Phillips  
**RECEIVED**  
 JAN 10 1964

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. William E. Spencer, of Melita  
 (Name of Appropriator) (Address) (Town)  
 County of Phillips State of Montana  
 have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SESE 1/4 NW Sec. 15 T. 24 R. 31

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

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

3. Date or approximate date of earliest beneficial use, and how continuous the use has been 1959 continuously

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Sept. 1959

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 Drilled 7 in steel casing

80.5 feet deep.

10. The estimated amount of groundwater withdrawn each year 1,200,000 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

Signature of Owner W. E. Spencer

Date Dec 31, 1963

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

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

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

29283

Miss 15983.  
237011

Phillips Co.

Filed 12-31-63

at 10:20 A.M.

Dec 2. 10

R. V. Maloney  
Clerk & Rec.

RECEIVED

OCT 17 1958

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

T. 24 R. 31

County Phillips

13

WATER WELL LOG


Owner William Spencer Address Malta, Montana  
 Driller Claude & Ray Hovey Address Malta, Montana  
 Date Started Sept 23, 1958 Date Completed Sept 27, 58  
 Location: Sec. 15 T. 24 R. 31 1/4 sec. SWNE

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

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

Casing: 0 ft. to 870 ft. Type 1D Size 4 inch  
 Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_  
 Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. 550 to ft. 650 Ft. 700 to ft. 870  
 Type of screen or perforations 3/8 inch holes drilled

Static Water level, for non-flowing well: 2 feet.

Shut-in pressure, for flowing well: 1 lb./sq. in. on: \_\_\_\_\_ (date)

Pumping water level: 100 feet at 6 gal. per min.

How tested: pumped

Length of test: 3 hours

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	7	Topsoil
7	57	clay
57	70	sand
70	216	sand and clay
216	218	gravel
218	431	shale
431	432	Rock (8 inches)
432	565	Judith formation
565	568	Rock (32 inches)
568	653	Judith formation
653	654	Rock (11 inches)
654	790	Judith formation
790	791	Rock (6 inches)
791	868	Judith formation
868	870	clayey shale

240463

State of Montana,

County of Phillips,

Filed for Record this 16 day

of Oct. A. D. 1910

at 10:00

of

at

of

Record

Recorder

Fee

Return

Miss # 14873

250463

OW

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

DUPLICATE

SECTION 16-3

RECEIVED  
MAY 1964

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

T. 24<sup>N</sup> R. 31<sup>W</sup> 16  
County Phillips

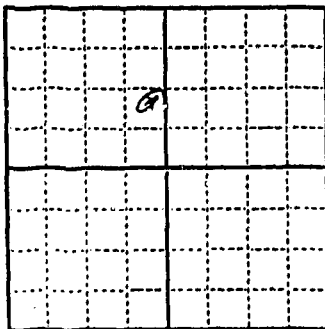
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 10 1964

# Declaration of Vested Groundwater Rights ENGINEER

(Under Chapter 237, Montana Session Laws, 1963)

1. I, Ray Holshen, of Bozeman (Town)  
(Name of Appropriator) (Address)  
County of Phillips State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 16, T. 24 N. R. 31 W.

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  
domestic use + watering
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1924  
continuous use ever since
4. The amount of groundwater claimed (in miner's inches or gallons per minute) three 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
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal artesian

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
8. The depth of water table 750'
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 820' 6" x 3" casing
10. The estimated amount of groundwater withdrawn each year continuous flow
11. The log of formations encountered in the drilling of each well if available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner Ray Holshen

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.

2997

Misc # 15797

236775

236775

Filed: Dec. 30, 1963

At: 3:22 P.M.

Fu # 2.00

Rosalind V. Maloney  
Clerk & Recorder



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

T. 24N R. 31E

DUPLICATE

County Phillips

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

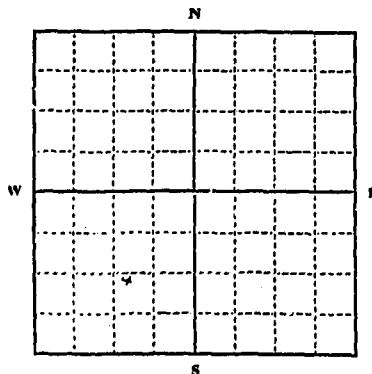
RECEIVED

JAN 10 1964

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Edwin H. Koss, of Regina, (Name of Appropriator) (Address) (Town)  
County of Phillips State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 S. 46. 1/4 Sec. 17 T. 24 N. R. 31 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 & Household
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Feb. 1920 & continuous to date
4. The amount of groundwater claimed (in miner's inches or gallons per minute) Ten 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
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric pumps
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1920
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 well about 800 ft. deep
10. The estimated amount of groundwater withdrawn each year 1036.800
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

Edwin Koss  
Date Dec 31, 1963

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

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

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

29278

Misc 15978

237006

Phillips, Mont.

Filed 12-31-63

at 10:15 A.M.

Fee \$2.00

R. V. Maloney  
Cl. & Rec.

File No. ....

DUPLICATE

T. 24 N. R. 31 E  
County Phillips

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 26 1963

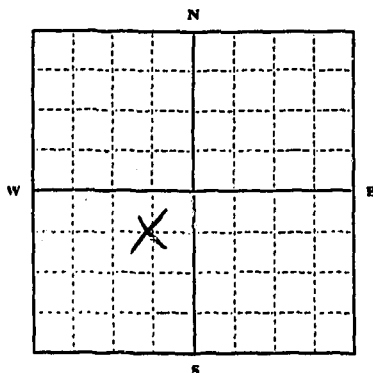
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. EARL A. Crowder Est. of Regina, MONTANA  
(Name of Appropriator) (Address) (Town)

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



NE 1/4 Sec. 21 T. 24 N. R. 31 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 WATER

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

JUNE 1, 1927STEADY

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

3 THREE 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

NONE

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

FLOWING WELL

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

JUNE 15, 1927  
JUNE 1, 1927

8. The depth of water table

965 FOOT

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, 4" casing, 965 feet

10. The estimated amount of groundwater withdrawn each year

50,000 GALLONS

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

SAME AS OTHER WELL ONLY FORMATIONS  
ABOUT 18 FOOT SHALLOWERS

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

(operator)

Signature of Owner

Earl A. CrowderDate Dec 23, 1963

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

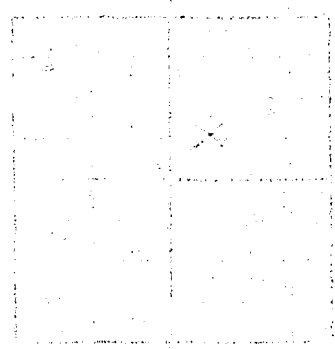
Please answer all questions. If not applicable, so state, otherwise the form will be returned.

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

236534  
236534

State of Montana, }  
County of Phillips, }

Filed for Record this 23 day  
of Dec A. D. 1925  
o'clock P. M. and duly recorded in book  
Page of  
By Ronald W. [unclear] Recorder  
Fee 2.00  
Returns



103120  
301

GV.

Approved Stock Form—State Publishing Co., Helena, Montana—41921

File No. ....

T. 24N R. 31E

DUPLICATE

County Phillips

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 26 1963

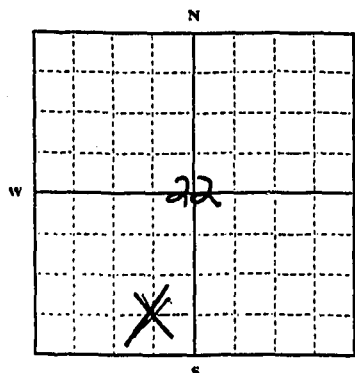
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. EARL A. CROWDER - EST., of Regina, MALTA  
(Name of Appropriator) (Address) (Town)

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



SESW 22 24 R. 31  
Sec. 22 T. 24 R. 31

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 WATER

3. Date or approximate date of earliest beneficial use; and how continuous the use has been AUGUST 1, 1945  
STEADY

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 - Three 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

NONE

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

Shallow Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater September 1, 1944  
TO AUGUST 1, 1945

8. The depth of water table 980 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

6-5 1/2 IN. CASING 80 - EIGHTY  
FOOT. 2-TWO INCH CASING 240 FEET, 1 1/2-DUE AND  
A QUARTER INCH ALL THE WAY DOWN TO 960 - NINE  
HUNDRED AND SIXTY FEET

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

11. The log of formations encountered in the drilling of each well if available 86 FT. Through Gravel  
350 FT. TO HARD SAND 412 FT. SAND ROCK 6 IN. THROUGH  
430 FT. 2nd SAND ROCK 8 IN. THROUGH, 505 FT. 3rd SAND ROCK 6 IN  
THROUGH, 565, 4TH SAND ROCK 6 IN. THROUGH, 570 FT. 5th SAND ROCK 8 IN  
THROUGH, 599 FT. 6th SAND ROCK 4 FT. THROUGH, 640 FT. 7th SAND ROCK 2 FT THROUGH

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

700 TO 800 FT. NEARLY SOLID SAND ROCK. Honeycombed in places  
ONE HARD SAND ROCK AT 797 FT.

(Signature of Owner) Earl A. Crowder

Date Dec 23, 1963

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

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

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

12477

Miss # 15601

236535

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

Filed for Record this 23 day  
of Dec A. D. 1940  
o'clock P.M. and duly recorded in book

Page ..... of .....  
Rosalene M. Maloney County Recorder

By .....

Fee 2.00 .....

Return .....

9-11-40

15-11-40

File No. ....

DUPLICATE

T. 24<sup>N</sup> 31<sup>E</sup>

County Phillips

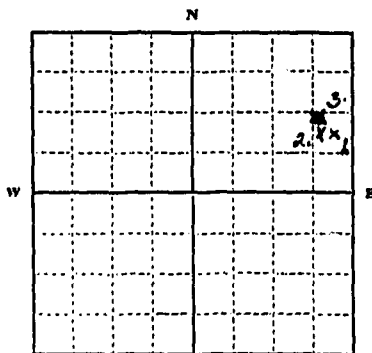
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 10 1963

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. William E. Spencer, of Matta (Name of Appropriator) (Address) (Town)  
County of Phillips State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE SE 1/4 NE Sec. 26 T. 24 N. R. 31 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: 1. Stock  
2. House 3. stock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1. 1949 continuously  
2. 1949 cont. 3. 1949  
all used continuously since  
digging
4. The amount of groundwater claimed (in miner's inches or gallons per minute): 1. 12 gal per min 2. 12  
gal per min 3. 15 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:  
1. Irrigate garden around pump, 4 acre.  
2. Irrigate lawn.  
Both owned by Spencer.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:  
1. Electric motor & pump 2 same  
3 hand pump.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1. pump 1949 2. June 1949  
3. Aug 1949
8. The depth of water table: 1. 22 ft. 2. 17 ft. 3. 25 ft.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: 1. 37 ft deep. drilled 4 in casing  
2. 31 ft deep. 7 in casing. drilled.  
3. 47 ft deep 4 in drilled
10. The estimated amount of groundwater withdrawn each year: 1. 1,000,000 gallons.  
2. 500,000 gal. 3. 500,000 gal.
11. The log of formations encountered in the drilling of each well if available:  
not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record:

Signature of Owner: W. E. SpencerDate: Dec 31, 1963

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

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

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

29284

Miss. 15984

237012

Phillips Co.

Filed 12-31-63

at 10:21 A.M.

Fee \$ 2.00

R. V. Maloney

Clerk & Recorder



26

T. 24 R. 31  
County Phillips

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG


Owner Chas. Koss Address Malta, Montana  
Driller Claude and Ray Shore Address Malta, Mont  
Date Started June 16, 1958 Date Completed June 20, 1958  
Location: Sec. 26 T. 24 R. 31  $\frac{1}{4}$  sec. SE N. W.

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 43 ft. Type \_\_\_\_\_ Size 6 inch

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

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

Perforated or Screened: Ft. 14 to ft. 43 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations 1/4 inch holes

Static Water level, for non-flowing well: 10 feet.

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

Pumping water level 30 feet at 8 gal. per min.

How tested: bailed

Length of test 2 hrs

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

(over)

## Log of Well

[illegible]

Miss # 14794

GW

Approved Stock Form—State Publishing Co., Helena, Montana—42134

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

DUPLICATE

T. 24<sup>N</sup> R. 31<sup>E</sup>

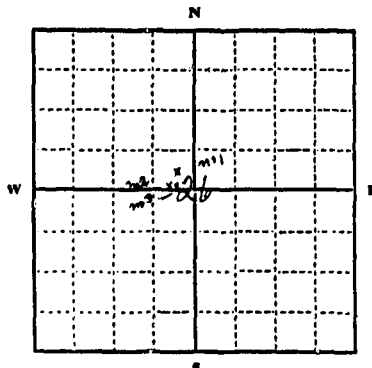
County Phillips

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 10 1964

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

1. Charles Koss, of Malta,  
(Name of Appropriator) (Address) (Town)  
County of Phillips State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 NW 1/4 Sec 26 T. 24 N. R. 31 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 No. 1 Lifestock  
No. 2 Household use  
No. 3 Irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been No. 1 = 1915 every year continuous use  
No. 2 = 1947 household every year  
No. 3 = 1958 "x garden & lawn" " " "
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 gals per min 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  
1/2 acre SE 1/4 NW 1/4 S. 26 T. 24 N. R. 31 E.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 3 electric pumps  
Location same as above

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater No. 1 = 1912 No. 2 = 1947 No. 3 = 1958

8. The depth of water table No. 1 = 7 ft No. 2 = 10 ft No. 3 = 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 No. 1 = 12 ft deep hand dug cased with lumber  
Size 4 x 6 ft No. 2 = 12 ft deep hand dug galvanized steel casing  
3.6 inch dia No. 3 = 4.5 ft deep drilled 7.6 inch dia casing  
Casing perforation 1/4 inch 14 to 42 depth

10. The estimated amount of groundwater withdrawn each year 3,000,000 gals.

11. The log of formations encountered in the drilling of each well if available 3 ft sand & 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 Charles Koss

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.

29249

Misc. 15949

236977

Phillips Co.

Filed 12-31-63.

at 9:46 A.M.

Fee \$2.00.

R.V. Maloney

Clerk & Rec.

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

T 24 R 31 27

TRIPLICATE

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

JAN 10 1964

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

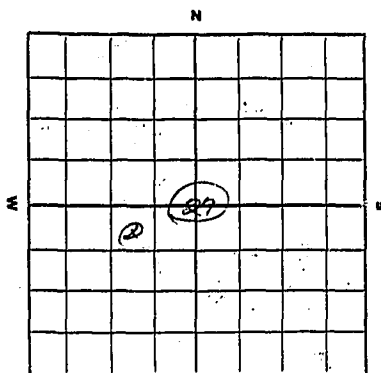
Owner PAUL KOSZ Address MALTA, MONTANADriller SIMPSON DRILLING CO Address MALTA, MONTANA

Date of Notice of appropriation of ground water \_\_\_\_\_

Date well started NOV 18, 1963 Date Completed Nov 22, 1963Type of well drilled Equipment used churn  
(dug, driven, bored or Churn, drill, rotary or  
drilled) other)Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6	4" 11 lb 0	42		holes	14	22



1/4 Sec. 22 T. 24 R. 31  
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  
9 feet.

Shut-in Pressure for Flowing Well \_\_\_\_\_

Pumping Water Level 13 feetat 8 gal. per minute.

Discharge in gal. per min. of flowing well

bailer

How Tested \_\_\_\_\_

Length of Test one hour

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) \_\_\_\_\_

was unable to make a well in thegravel at 126 feet; gravel packed14-22 with pea size gravel anddeveloped a good well15

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 School of Mines and Quadruplicate for Appropriator.

Misc. 15948

236976

Phillips Co.

Filed 12-31-63

at 9:45 A.M.

Fee \$ 2.00

R. V. Maloney  
Ch. & Rec.

Clx Rec

the fact that the number of people who are not in the labor force is increasing. This is due to a number of factors, including the aging of the population, the increase in the number of people who are disabled, and the increase in the number of people who are not in the labor force for other reasons.

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

**SECRET**

[illegible]

THE UNIVERSITY OF CHICAGO

Ma Rec

ee  
P.V.  
L.V

100

\_\_\_\_\_

100-443887-1000

File No. 2W2

MONTANA WATER RESOURCES BOARD

T. 34N R31E22

DUPLICATE

RECEIVED

County Phillips

Top of Ground

SEP 26 1967

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

(Elev. above sea level \_\_\_\_\_)

0 20 sandy brown clay  
 20 37 muddy brown sand  
 37 45 tan clay  
 45 80 muddy brown sand  
 80 105 muddy sand some gravel  
 121 123 gravel water

## Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Charles G. Barnard Address Regina, MontanaDriller Simpson Drilling Company Address Malta, Montana

Date of Notice of appropriation of ground water \_\_\_\_\_

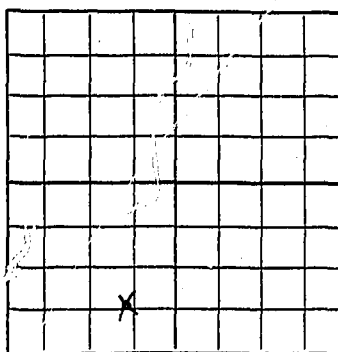
Date well started August 10, 1967 Date Completed August 14, 1967

Type of well drilled Equipment used ohura  
 (dug, driven, bored or Churn, drill, rotary or  
 drilled) 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		
				Kid Size	From (Feet)	To (Feet)
6	6" ID 19# threaded	0	123	none		



SE 1/4 SW Sec 28 T24N R31E  
 Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing well \_\_\_\_\_ feet.

Shut-in Pressure for Flowing Well \_\_\_\_\_

Pumping Water Level \_\_\_\_\_ feet

at \_\_\_\_\_ gal. per minute.

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

How Tested pumpedLength of Test one hour

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

Driller's License Number 15

Robert C. Simpson  
 Driller's Signature

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

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

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

42,342

246306

**Returns**.....

1919 and 1920. Entered 10, 1923. One child. Entered 14, 1923.

[illegible]

☐ Important ☐ Domestic ☐ Other ☐ Information  
 Date Recd. ☐ Forwarded ☐ to ☐ ☐ ☐  
 (month) ☐ (year)

indicates on the spectrum the apparent and influence of the different

[illegible]



RECEIVED

JAN 2 1948  
STATE ENGINEER  
N

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

	29	
		X

Owner **W. A. Barnard**  
**Charles G. Barnard** Address **Malta, Mont.**  
Driller **R. G. Simpson** Address **Malta, Mont.**  
Date Started **July 1947** Date Completed **Aug. 1947**  
Location: Sec. **29** T. **24** R. **31 E** 1/4 sec. **32**

Type of well **Artesian** (Dig, driven, bored, or drilled) Equipment used **Pulling Rotary** (Churn drill, rotary, other)

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

Casing: **0** ft. to **400** ft. Type **Blk.** Size **4 inch**

Casing: **400** ft. to **800** ft. Type **Galvanized** Size **2 inch**

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

Perforated or Screened: Ft. **800** to ft. **800** Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations **1/4 inch holes**

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

Shut-in pressure, for flowing well: **12** lb./sq. in. on: **Aug. 15, 1947** (date)

Pumping water level **Not tested** feet at \_\_\_\_\_ gal. per min.

How tested: \_\_\_\_\_

Length of test: \_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(over)

## Log of Well

[illegible]

2387

mic 14699

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

Filed for Record this.. 24... day  
of Jan... A D. 1958 X: 5  
o'clock, M. and duly Recorded in book

Page ..... of .....

Recorded by: [Signature] Date: 11/2/98

.....

Fe . . . . .

Return: .....

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

T. 24 N. R. 31 E

DUPLICATE

County Phillips

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

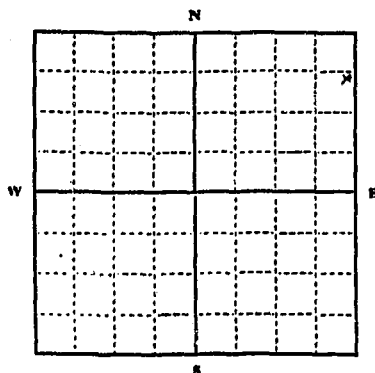
RECEIVED  
JAN 10 1964

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Edwin M. Koss, of Regina,  
(Name of Appropriator) (Address) (Town)  
County of Phillips State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



E 1/4 NE

1/4 Sec. 30, T. 24, R. 31  
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 Limestone

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Oct. 1959

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Began drilling May 6, 1959. Completed May 25, 1959.

8. The depth of water table 160 ft. 620 to 780 feet perforations to drilled holes

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 4 1/2 inch Steel pipe

10. The estimated amount of groundwater withdrawn each year 1,036,800 gals.

11. The log of formations encountered in the drilling of each well if available 0 to 10 ft. top soil to 15 Sandy clay, 15 to 60 shale & sand 60 to 140 Shale 140 to 160 soft sandy shale 160 to 346 Shale 347 to 825 Judith River formation & 10 rocks 7 to 37 inches in Dr.

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

Signature of Owner

Edwin KossDate Dec 31, 1963

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

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

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

29277

Min 15977

237005

Phillips Mount

Dated 12-31-63  
at 10:14 A.M.

Fee \$2.00

R. V. Maloney

Ch. & Rec.

30

T. 24 R. 31  
County Phillips

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

	30	x

Owner Edwin Koss Address Regina, Montana  
Driller Claude & Ray Shores Address Malta, Montana  
Date Started June 4, 1958 Date Completed June 9, 1958  
Location: Sec. 30 T. 24 R. 31 ¼ 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 160 ft. Type \_\_\_\_\_ Size 6 inch

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

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

Perforated or Screened: Ft. 50 to ft. 160 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations 1/4 inch holes

Static Water level, for non-flowing well: 25 feet.

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

Pumping water level 50 feet at 4 gal. per min.

How tested: balled

Length of test 2 hours

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

(over)

## Log of Well

[illegible]

Misc # 14793

325

RECEIVED  
SEP 2 1958

T. 24 N. R. 31 E. 31  
County Phillips

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG


Owner Chas. Barnard Address Regina, Montana  
Driller Claude and Ray Shover Address Malta, Montana  
Date Started aug 1, 1958 Date Completed aug 18, 1958  
Location: Sec. 31 T. 24 N. R. 31 E.  $\frac{1}{4}$  sec. SW  $\frac{1}{4}$  NE  $\frac{1}{4}$

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: 0 ft. to 850 ft. Type galvanized Size 2 inch

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

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

Perforated or Screened: Ft. 620 to ft. 660 Ft. 720 to ft. 780

Type of screen or perforations  $\frac{3}{8}$  inch holes drilled

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

Shut-in pressure, for flowing well: 5 lb./sq. in. on: aug 18, 1958  
(date)

Pumping water level: \_\_\_\_\_ feet at \_\_\_\_\_ gal. per min.

How tested: \_\_\_\_\_

Length of test: \_\_\_\_\_

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

(over)

## Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	9	topsoil
9	111	sand and gravel
111	410	shale
410	415	Judith formations
415	417	rock (19")
417	553	Judith formations
553	555	rock (22")
555	615	Judith formations
615	616	rock (3")
616	633	Judith formations
633	636	rock (34")
636	831	Judith formations
831	832	rock (5")
832	850	Judith formations

219924

State of Montana, } ss.  
County of Phillips,  
Filed for Record this 29<sup>th</sup> day  
of May, A. D. 1958 at 2:30  
o'clock P. M. and duly Recorded in book  
Page 50  
by Recorder  
ee. 50  
Return:

Miss # 14805



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

T. 24N R 31E

DUPLICATE

County Phillips

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

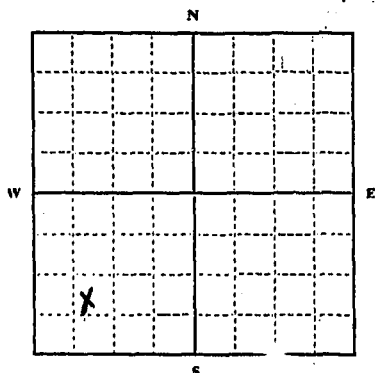
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
DEC 26 1963

STATE ENGINEER

1. EARL R. SHORES, of REGINA,  
(Name of Appropriator) (Address) (Town)  
County of PHILLIPS 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. 24N R. 31E

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 APRIL 9, 1960  
CONTINUOUS USE
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 GAL. PER MINUTE
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
NONE
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
NATURAL FLOW

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. APRIL 6, 1960 - APRIL 7, 1960

8. The depth of water table 0

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. 850 FT. DEEP - 4" I.D. STEEL PIPE

10. The estimated amount of groundwater withdrawn each year. 2,500,000 GAL

11. The log of formations encountered in the drilling of each well if available. 0 - 77 CLAY & TOP  
SOIL - 5 ft - 850 JUDITH RIVER FORMATION.  
38 - 381 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

Date Dec 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.

12445

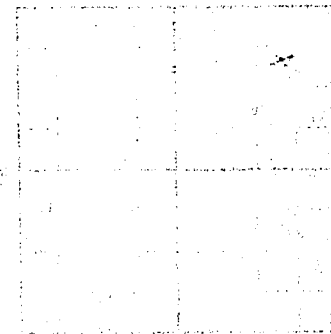
Min 15569

236468

State of Montana.

County of Hill

File of *Lee* 20 day  
of *14* 23 9:00  
at *filed*  
By *P.V. Maloney* County Recorder  
Fee *2.00*  
Return.....



RECORDED

NOV 3

WOLF TANKARD

COMMISSIONER

2371 500 1142

WATER

ADDER

2371 500 1142

2371 500 1142

2371 500 1142

WATER

ADDER

WOLF TANKARD

RECEIVED

MAY 3 1960

T. 24 R. 31E 34  
County Phillips

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

	34		
X			

Owner Earl Shores Address Regina, Mont.  
Driller Roy Shores Address Regina, Mont.  
Date Started April 6, 1960 Date Completed April 9, 1960  
Location: Sec. 34 T. 24 R. 31E 1/4 sec. SW SW

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: 6 ft. to 850 ft. Type OD casing Size 4 inch ID

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

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

Perforated or Screened: Ft. 500 to ft. 840 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations 3/4" holes

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

Shut-in pressure, for flowing well: 7 lb./sq. in. on: April 12, 1960  
(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)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	24	sandy clay
24	49	sand
49	77	clay
77	381	shale (Bear Paw)
381	382	Rock 17"
382	419	Judith River formation
419	420	Rock 12"
420	432	Judith River formation
432	440	hard sandstone
440	442	Rock 22"
442	478	Judith River formation
478	479	Rock 6"
479	557	Judith River formation
557	558	Rock 11"
558	570	Judith River formation
570	575	Rock 59"
575	850	Judith River formation

225790

State of Montana, ss.  
County of Phillips,  
filed for Record this 7<sup>th</sup> day  
of May, A. D. 1962 at 2:15  
o'clock, P. M., and duly recorded in book  
Page 1 of 1  
By Judith J. Judd, Recorder  
Fees \$1.00  
Return.....

Min # 14995

## GROUNDWATER INDEX

Page    / of    /

County Phillips Twp. 24N Rge. 32E

[illegible]

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

T. 24 N. R. 32 E.

DUPLICATE

County Phillips

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

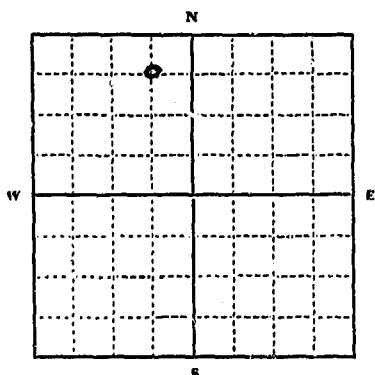
JAN 27 1963

STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Adam G. Koss, of Malta  
(Name of Appropriator) (Address) (Town)  
County of Phillips State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 NW Sec. 10 T. 24 R. 32

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

2. The beneficial use on which the claim is based domestic and livestock and irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been April, 1955  
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  
3 acres. same owner. NE 1/4 NW Sec. 10 T. 24 R. 32
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Electric submerged pump at 330 ft.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater April, 1955
8. The depth of water table 250 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 1085 ft. deep, 509 ft. of 5" steel casing, 590 ft. of 3" steel casing
10. The estimated amount of groundwater withdrawn each year One million gallons
11. The log of formations encountered in the drilling of each well if available (Not available)
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner /s/ Adam G. Koss

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.

53969

Misc 16044  
237072.

Phillips Co.

Filed 12-31-63.

at 11:15 A.M.

Fee \$ 2.00.

R.V. Maloney

Clerk & Recorder

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

T. 24<sup>N</sup> R. 32<sup>E</sup>

DUPLICATE

County Phillips

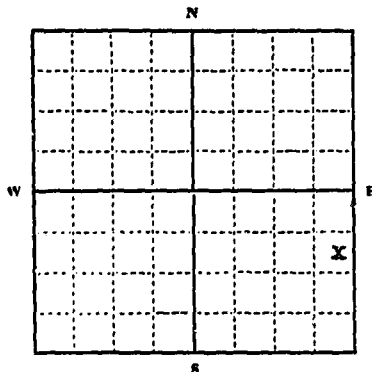
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

REC  
JAN 27 1964  
STATE ENGINEER

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Billie Lou Arnott, of Utica  
(Name of Appropriator) (Address) (Town)  
County of \_\_\_\_\_ State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SENE  $\frac{1}{4}$  SE. Sec 33 T. 24 R. 32

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been continuous---1932

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1932

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 rock casing

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

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

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 /s/ Billie Lou Arnott

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.

33968



Misc 16043.

237071

Phillips Co.

Filed 12-31-63.

at 11:14 A.M.

Fee \$2.00

R.V. Maloney  
Clerk & Rec.

T 24<sup>th</sup> R-32<sup>nd</sup>

County.....Phil\_lips.....

## JUN 27 1964

STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

A 4x4 grid with dashed lines. The top row is labeled 'N' and the bottom row is labeled 'S'. The left column is labeled 'X' and the right column is labeled 'Y'.

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

- Signature of Owner /s/ Billie Lou Arnot

Date Dec 30, 1963

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.

33,967

Misc. 16042.  
237070.

Phillips Co.

Filed 12-31-63.

at 11:13 A.M.

Fee 2.00

R. V. Maloney  
Clerk Rec.

STATE ENGINEER

JAN 2 1959

MONTANA BUREAU OF MINES AND GEOLOGY

Butte, Montana

# WATER WELL LOG

	34	
x		

Owner W. A. Barnard Address Malta, Mont.  
Charles O. Barnard  
 Driller R. C. Simpson Address Malta, Mont.  
 Date Started Dec. 20, 1956 Date Completed Feb. 1, 1957  
 Location: Sec. 34 T. 24 R. 32 1/4 sec. 37

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

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

Casing:.....ft. to.....ft. Type.....Size.....  
 0.....1100 Black.....4 inch.  
 Casing:.....ft. to.....ft. Type.....Size.....  
 Casing:.....ft. to.....ft. Type.....Size.....

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

Type of screen or perforations.....

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

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

Pumping water level.....feet at .....10.....gal. per min.....

How tested: The pump is installed at 300 feet and will not pump down on continuous operation and 10 gal. per minute.

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

~~Earth packed at surface to seal casing.~~

(over)