

82821

STATE OF MONTANA,

County of Blaine,

Filed 25 day

of Jan A.D. 1964

at 4 P.M.

Wm. H. Hain

By

43
S 2 S 22

20
T. 4 N R. 16 E

STATE OF MONTANA
DEPARTMENT OF LAND AND MINES
OFFICE OF STATE ENGINEER

STATE ENGINEER
JAN 29 1964

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION
TAN 16E
(Under Chapter 237, Montana Statutes, 1941)

Date of appropriation of Groundwater 12-30-63

Owner Leo Cremer Address Melville

Character of use none

Address of Owner none

Date of development none Date Completed -

Description of obtained groundwater without
a well "used for sub-irrigation and other natural
processes". Include depth to water when
available gravity Flow

1
springs originating
from underground sources

NE 1/4 Sec 20 TAN 16E
Indicate point of appropriation
and place of use, if possible.

Quantity of water developed and used with explan-
ation of method used to measure or estimate such amount.
If use is intermittent estimate approximate
length of periods of use ESTIMATED

Flow 5 gals per minute
Used year around for
stock water (grain) Daniel

Signature of Owner [Signature]
Date Dec 30 1963

STATE OF MONTANA
DEPARTMENT OF LAND AND MINES

Notary Public for the State of Montana
My commission expires 12-31-64

34256

82822

STATE OF MONTANA,

County of Saint James,

Platting 25

of Jan 64

at 4 P M

Arne Haum

County Clerk

By

Notary

117 10 E 21
RECEIVED
JAN 23 1964 16E

WIF NO. 82873

STATE ENGINEER
GREAT GRASS COUNTY

STATE OF MONTANA
ADMINISTRATIVE CODE
OFFICE OF STATE ENGINEER

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION
TITRANT WELL
(Under Chapter 237 Montana Session Laws, 1961)

Date of appropriation of groundwater **12-30-63**
Appropriator **Leo Cremer** Address **McNulty, Mont**

Contractor (if any) **NONE**

Address of Contractor **NONE**

Date Surveyed Date Completed

Description of obtaining groundwater without
"well" means sub-irrigation and other natural
processes. Include depth to water when
applicable **gravity flow springs**
originating from underground
SOURCES

81102

81101

Indicate point of appropriation
and place of use, if possible.
Sec. **21** AN **16E**

NE **SW 1/4**
No 1 - **SE 1/4 SW 1/4 Sec 21**
No 2 - **SW 1/4 SW 1/4 Sec 21**

Quantity of water developed and used with exclud-
ed of record used to measure or estimate such amount.
If use is intermittent estimate appropriate
length of periods of use **Estimated Flow**
of springs 5000 gpm
Used year around
stock water
Signature of Owner **Dec 30 1963**

STATE OF MONTANA
COUNTY ENGINEER

I, having first been duly sworn, depose and
say that the foregoing is a true and correct
copy of the original of the record of the
notice of completion of groundwater appropriation with all of the
contents thereof, as the same appears in the
office of the State Engineer, Great Grass County, Montana.

Subscribed and sworn to before me this _____ day of _____, 1964.

Notary Public for the State of Montana
My Commission Expires _____

34257

82823

STATE OF MONTANA, } ss.
County of Powell

Filed for 25 day
of Jan 1964
at 4 o'clock PM
Arne Hain
By _____
Deputy

67.3
FILE NO. 82584

72
T. 4 N R. 16 E
SHEET GRASS COUNTY

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 29 1964

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
(Under Chapter 237, Montana Session Laws, 1961)

Date of appropriation of Groundwater 12-30-63

Owner LEO CREMER Address Melville

Contractor (if any) none

Address of Contractor none

Date Started undeveloped Date Completed -

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

gravity flow ~~from~~ springs
originating from underground
sources

Quantity of water developed and used with expanse of land used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use Estimated

Flow 5 gals per minute Used
year around for stock
water

Signature of Owner *Leo Cremer*

Date Dec 30 1963

SW 1/4 NE 1/4 Sec 22 TAN 16E
Indicate point of appropriation
and place of use, if possible.

STATE OF MONTANA
COUNTY OF SHEET GRASS

Having first been duly sworn, depose and say that he of lawful age and the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation without well and the person whose name subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true

Subscribed and sworn to before me, this day of , 19

Notary Public for the State of Montana
Residing at

My Commission expires 19

34318

82584

25
Jan 64
4 P
Arms Room

ny

13
REF NO. 82855

4 N 16 E
SWEET GRASS COUNTY
JAN 29 1964

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

STATE ENGINEER

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION
WITHOUT WELL
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater **12-30-63**
Owner **Leo Cremer** Address **Helville, Mont**

Contractor (if any) **none**

Address of Contractor **none**

Date Started **undeveloped** Date Completed **-**

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

GRAVITY FLOW SPRINGS
ORIGINATING FROM UNDERGROUND
SOURCES

No. 1
No. 2

Sec **23** T. **4N** R. **16E**
Indicate point of appropriation
and place of use, if possible.

No 1 & 2 - NE 1/4 SE 1/4 Sec 23

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.

SPRINGS FLOW
AN ESTIMATED 59 GALS PER
MINUTE USED YEAR AROUND
FOR STOCK WATER CREEPY POND

Signature of Owner

Date **Dec 30 1963**

STATE OF MONTANA
COUNTY OF SWEET GRASS

Having first been duly sworn, depose and say that he of lawful age and the appropriator and claimant of the water right mentioned in the foregoing notice of completion of groundwater appropriation without well and the person who was subscribed thereto, as the appropriator and claimant, that he owns the contents of said foregoing notice and the contents and things therein stated are true.

Subscribed and sworn to before me, this ____ day of ____, 19__

Notary Public for the State of Montana
Residing at _____
My Commission expires _____ 19__

34319

82555

25
Jan 64
4
One hour
By

File No. 82584

T. H. R. 16 E

DUPLICATE

County Sweet Grass

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1909

Owner Sarah S. Tollefson Address Helena, Montana

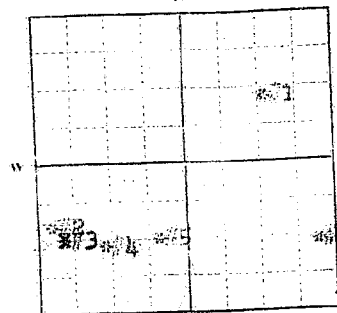
Contractor (if any) _____

Address of Contractor _____

Date Started 1909 Date Completed 1963

Describe means of obtaining groundwater without a well: "as by sub-irrigation and other natural processes". Include depth to water when applicable. #1 Improved with pipe and

tank; #3 is piped into residence.



1/4 Sec. 24 T. H. R. 16 E
Indicate point of appropriation
and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use. 5. sometimes
dries up. All the rest flow the year around.
They would average between 2 to 5 miner's
inches.

Signature of Owner Sarah Tollefson

Date Dec. 27, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

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

82584

STATE OF MONTANA. }
County of Sweet Grass. } ss.

Filed this 20 day
of Jan A.D. 1964
at 7755 o'clock P.M.
Arne Wain
By _____
Deputy.

4 N. 16E

County Sweet Grass

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

Water Well Log

X	Owner	Sarah S. Tollefson	Address	Big Timber, Mont.
	Driller	F. J. Buckley	Address	Harlowton, Montana
	Date Started	Nov. 1948	Date Completed	Nov. 1948
	Location: Sec. 24 T. 4N R. 16E ₄ sec. SW ₄			

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

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

Casing: 1 ft. to 69 ft. Type Steel Size Six 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: 32 feet.

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

Pumping water level 48 feet at six gal. per min.

How tested:

Length of test

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

Water is piped into four stock sheds

(300)

[illegible]

County of SIOUX, Nebraska

Page 29

of Dec 1960

24.40

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
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By George H. Smith

County Sweet Grass

RECEIVED
JAN 3 1962

Water Well Log

STATE ENGINEER

★		

Owner Sarah S. Tellefson Address Big Timber, Montana

Driller E. H. Buckley Address Harlowton, Montana

Date Started Aug 1950 Date Completed July 1950

Location: Sec. 20, T. 1, R. 16E $\frac{1}{4}$ sec. SW⁴

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

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

Casing: one ft. to 70 ft. Type steel Size six 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: 24 feet.

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

Pumping water level 24 feet at five gal. per min. _____

How tested: _____

length of test

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

(over)

15

County Sweet Grass

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JAN 3 1946

Water Well Log

STATE ENGINEER

Owner Sarah S. Tollefson Address Big Timber, Mont

Driller F. J. Buckley Address Harlowton, Montana

Date Started May 1946 Date Completed May 1946

Location: Sec. 24 T. 14 N. R. 16E sec. SW

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

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

Casing: 1 ft. to 76 ft. Type Steel Size six 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: 25 feet.

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

Pumping water level 25 feet at 10 gal. per min.

How tested:

Length of test

Remarks: (show pay log, cementing, packers, type of shut-off, depth of shut-off)

Description of Material Drilled

Test

Page 10

100

C

Chenopodium Sweet Grass

Feb. 1948. 29

of *W. ac.*

at 4:58

100-443887-1

By W. J. H. H. H.

[illegible]

File No.

T. 4N R. 16E

DUPLICATE

County Sweet Grass

LOG

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

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

Top of Ground

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

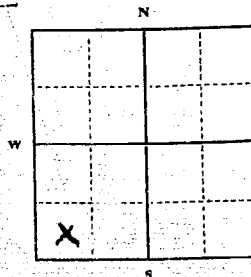
0-8 Top Soil8-21 Broken Sandstone21-24 Grey ClayOwner Terrill Tollman Address Big Timber, Mont.Driller B & H Drilling Address Big Timber, Mont.

Date of Notice of appropriation of groundwater.....

Date well started 7/8/70 Date completed 7/9/7024-55 Pink ShaleType of well Drilled Equipment used Churn drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)55-60 SandstoneWater use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐60-66 Grey Shale

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)
<u>6 inch</u>	<u>6 5/8</u> <u>19.97</u>	<u>1+</u>	<u>25</u>			
	<u>4 1/2</u> <u>Plastic</u>	<u>6-</u>	<u>66</u>	<u>3/16</u> <u>Habe</u>	<u>50</u>	<u>60</u>

D. No. 89837
Filed for record
th. 10 day of August
A. D. 19 70, at 4:25
o'clock P. M.Static Water Level for non-flowing well 12 feet.

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

Pumping Water Level 45 feetat 25 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested BaileyLength of Test 1 hr.

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

SW 1/4 Sec. 24, T. 4N R. 16E
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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

Show exact depth of bottom.

66 ft

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

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

Driller's License Number

No 27
Paul L. Hanger

Driller's Signature.

FILED: August 10, 1970
4:25 O'Clock *ML*

File No: 89837
MARGARET PLACEMEYER Clerk & Recorder

By Deputy *Reginald D. Tackling*

File No.

T. 4N R 16E

DUPLICATE

County Sincet Grass

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

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

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

Owner Terrill Talberson Address Big Timber, Mont.Driller B.H. Drilling Address Fishtail, Mont.

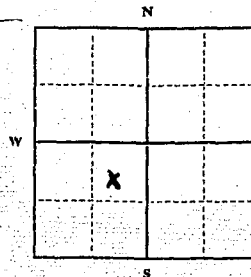
Date of Notice of appropriation of groundwater.....

Date well started 7/10/70 Date completed 7/10/70Type of well Drilled Equipment used Churn Drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 inch	65/8 18.97	18 1/2	17			
	4 1/2 Plastic	7 1/2	40	3/16 Hole	25	35

Doc. No. 89838
Filed for record
this 10 day of August
A. D. 19 70, at 4:29
o'clock P. M.

Static Water Level for non-flowing well 16 feet.

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

Pumping Water Level 30 feetat 20 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested BailwLength of Test 1 hr

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

NE 1/4 Sec. 21, T. 4N R. 16E
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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

Show exact depth of bottom.

40 ft.

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

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

No. 27
Driller's License Number

Paul L. Hargrave
Driller's Signature.

By Deputy Hazel W. Callaway

Unrecorded Stock Form—State Publishing Co., Helena, Montana—50351

4N^R 16E

County. *Sineet Street*

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

STATE WATER

Notice of Completion of Groundwater

by Means of Well

**Appropriation by means
DEVELOPED AFTER JANUARY 1, 1982**

**DEVELOPED AFTER THE
CIVILIAN LAWS, 1961, AS AMENDED)**

Under Chapter 937 Montana Session 1907

Address: 116 Bedford St. New York, N.Y.

Owner: Benjamin J. Smith 1161

Miller B & B... Address...

Principles of groundwater

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—50551

File No.

T. 4N R. 16E

DUPLICATE

County. Sincere

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

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

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

Owner Terrill Talbotson Address Big Timber, MontDriller R.H. Drilling Address Fishtail, Mont

Date of Notice of appropriation of groundwater

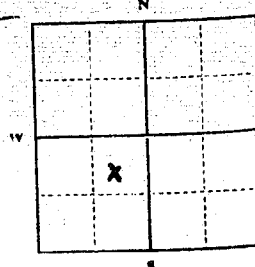
Date well started 7/10/70 Date completed 7/10/70Type of well Drilled Equipment used Churn drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 inch	65/8	18 1/2	17			
	18.97					
	4 1/2	7 1/2	40	3/16	25	35
	Plastic			Hole		

Doc. No. 898.38

Filed for record

this 10 day of AugustA. D. 19 70, at 4:29o'clock P. M.Static Water Level for non-flowing well 16 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 30 feetat 20 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested BailwLength of Test 1 hr

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

NE 1/4 Sec. 24 T. 4N R. 16E

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

(Continue on reverse side)

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

Show exact depth of bottom.

40 ft.

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

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

No 27
Driller's License Number

Paul L. Hargan
Driller's Signature

CV-3

FILE NO. 82842

T.4N

R.16E

SWEET GRASS COUNTY

STATE OF MONTANA
ADMINISTRATIVE CODE
OFFICE OF STATE ENGINEER

FILE NO. 29 1061

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
(Under Chapter 237, Montana Session Laws, 1961)

Date of appropriation of Groundwater 12-30-63

Owner Leo Cremer Address Helena, Mont.

Contractor (if any) none

Assigner of Contractor none

Date Started undetermined Date Completed -

Describe means of obtaining groundwater without well "for irrigation and other natural processes". Include depth to water when possible gravity flow spring

originating from underground sources

Sec 25 T.4N R.16E
Indicate point of appropriation and place of use, if possible.

SW 1/4 NW 1/4 Sec 25

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 estimated

Flow 5 gals per minute - Used year around for stock water

Signature of Owner [Signature]

Date Dec 30 1963

STATE OF MONTANA
COUNTY OF SWEET GRASS

I, the undersigned, having first been duly sworn, depose and say that the above and content of the foregoing water right mentioned in the foregoing notice of completion of groundwater appropriation without well and the person who has subscribed thereto, as the appropriator, and claimant, that the contents of said foregoing notice and the statements therein are true.

Subscribed and sworn to before me, this _____ day of _____, 19____

Notary Public for the State of Montana
Residing at _____

My Commission expires _____ 19____

34276

82842

STATE OF MONTANA, }
County of Deer Lodge, } So

Filed this 25th day of

of Jan 1964

at 4 P M

Gene H. Hume

By

For

T

16 E

SYNOPSIS

[illegible]

JAN 29 1964

[illegible]

Date of approval of GPO: 12-30-63

Leo Cremer Melville, Mont

[illegible]

none

undveloped Date Completed -

Debris is kind of chert-like groundwater without
"fill" has been-irrigation and other natural
"groundwater", includes depth to water when
"groundwater".

413

8/10/2

gravity Flow springs
originating From underground
sources

Indicate route of transportation
and place of use, if possible.

N101- SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 26
No 2- NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 26

Quantity of water developed and used with exploration of well to measure an estimate such as used. It should be calculated estimate approximate
lasted periods of use **SPRINGS FLOW**
an estimated 5906 per minute
used year around for
stock water **Spring Angel**
Source of water

79-4

Dec 30 1963

1. *Chlorophyll a* (Chl *a*) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum.

[illegible]

82886

25
Jan 62
4 P
Anne Haem
By _____
Dated _____

File No. 82583T 4 N R 16 E

DUPLICATE

County Sweet Grass

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 22 1964
STATE ENGINEER

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

(Under Chapter 237 Montana Session Laws, 1961)

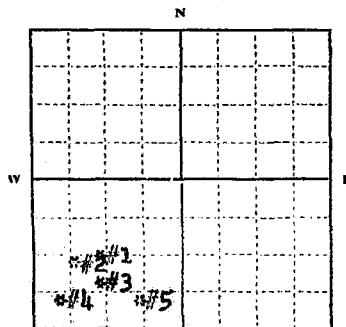
Date of Appropriation of Groundwater 1915
Owner Sarah S. Tollefson Address Big Timber, Montana

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. All five springs are unimproved and used only for livestock uses and sub-irrigation of hay fields

SW 1/4 Sec 26 T4N R 16E

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

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use. All springs flow the year around and they would average from 5 to 10 miner's inches each.

Signature of Owner

Sarah TollefsonDate Dec. 27, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

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

82583

STATE OF MONTANA, } ss.
County of Sweet Grass }

Filed this 20 day
of Jan A. D. 1964
at 955 o'clock P. M.
Arne Haem
By _____ Deputy.

FILE NO. 87551

T. 4N R. 16E

STATE OF MONTANA
DEPARTMENT OF FORESTRY AND GAME
DIVISION OF STATE ENGINEER

STATE ENGINEER

JAN 24 1963

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION

WATER RIGHT

(Under Chapter 237 Revised Statutes of 1941)

Date of Appropriation of Groundwater **12-30-63**

Name **Leo Croner** Address **Melville**

Connection (if any) **none**

Address of Contractor **none**

Date Started **UNKNOWN** Date Completed **-**

Description of obtaining groundwater without well "as it is" - "in its natural state" and other natural processes. Include depth to water when available.

**gravity Flow springs
originating from
underground sources**

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If unable to estimate, estimate approximate

letting of periods of use **estimated Flow
of each spring in this section
5 gals. per minute - Used year
around for stock water**

Signature of Owner

Date

Leo Croner
Dec 30 1963

Sec 27 TAN NE
Indicate point of appropriation
and place of use, if possible.

N61. NW 1/4 NW 1/4 Sec 27

N233- NE 1/4 SW 1/4 Sec 27

State of Montana
County of _____

I, _____, do hereby certify that the above described person, firm, partnership, corporation, or other entity, has duly complied with the provisions of Chapter 237, Revised Statutes of 1941, in the appropriation of groundwater, and that the same has been duly recorded in the office of the State Engineer, and that the same is hereby certified to be correct and true.

Witness my hand and the seal of the State of Montana, this _____ day of _____, 1963.

Notary Public for the State of Montana
My Commission Expires _____

My Office is located at _____

82887

S

(

25

of

at

By

Jan 64
A. H. Hain

Depart

273
FILE NO. 82558

28
T. 4 N. R. 16 E.
SWEET GRASS CREEK

STATE OF MONTANA
ADMINISTRATION OF BROWN-ROBERTS CODE
OFFICE OF STATE ENGINEER

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION
WITH A WELL
(Under Chapter 237, Session Laws, 1961)

Date of appropriation of Groundwater 12-30-63

Owner Leo Cremer Address Helville, Mont

Contractor (if any) none

Address of Contractor none

Date Started undetermined Date Completed —

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

springs originating from underground sources

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 estimated

Flow 5 gals per minute used year around for stock water
Signature of Owner Leo Cremer

Date Feb 20 1963

W
E
S
N/E 1/4 Sec 28 T4N R16E
Indicate point of appropriation and place of use, if possible.

STATE OF MONTANA
COUNTY OF TETON

Having first been duly sworn, deposes and says that he is of lawful age and the appropriator of the water right mentioned in the foregoing notice of completion of groundwater appropriation without well and the person who subscribed hereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true

Subscribed and sworn to before me, this _____ day of _____, 19____

Notary Public for the State of Montana
Residing at _____
My Commission expires _____ 19____

34322

82888

STATION _____
City _____
Date 25 Jan 64
at 4 P.M.
Am. Home
By _____
Display _____

CV 3

FILE NO. 82889

T. 4N R. 16E

STEVENS GRASS COUNTY

STATE OF MONTANA
ADMINISTRATION OF GROUNDWATER CODE
OFFICE OF SENIOR ENGINEER

JAN 29 1964

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION
WELL
(Under Chapter 237 Montana Session Laws, 1961)

Date of appropriation of Groundwater 12-30-63

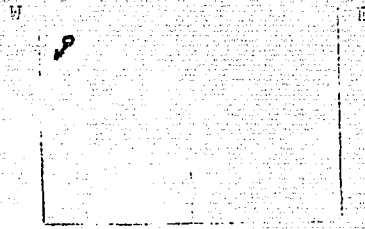
Owner Leo Cremer Address Melville, Mont

Contractor (if any) none

Address of Contractor none

Date Started undeveloped Date Completed -

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable gravity flow springs originating from underground sources



SW 1/4 NW 1/4 Sec 29 T. 4N R. 16E
Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate length of periods of use estimated flow

5 gals per minute used year around for stock water

Signature of Owner [Signature]

Date Dec 30 1963

STATE OF MONTANA
OFFICE OF SENIOR ENGINEER

Having first been duly sworn, deposes and says that he, the appropriator, of lawful use and of the order a water right mentioned in the foregoing notice of completion of groundwater appropriation without well and the person who has subscribed thereto, as the appropriator, and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me, this ___ day of ___, 1964

Notary Public for the State of Montana
Residing at

My Commission expires ___ 19__

34323

87889

STA
Con
File No. 25
of Jan 1964
at 4 P.M.
Arne Hansen
R.
By
V.

1-3
FILE NO. 82890

T. 44N R. 16E
SVELT GRASS COUNTY

STATE OF MONTANA
ADMINISTRATIVE DEPARTMENT
OFFICE OF STATE ENGINEER

[B]
JAN 29 1964

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION
INTENT WELL
(Under Chapter 237 Montana Session Laws, 1941)

Date of appropriation of Groundwater 12-30-63

Owner Leo Cremer Address Haville, Mont

Contractor (if any) none

Address of Contractor none

Date Started undeveloped Date Completed -

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

gravity flow spring
originating from
underground sources

Sec 30 T. 44N R. 16E
Indicate point of appropriation
and place of use, if possible.

NW 1/4 NE 1/4 Sec 30

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate length of periods of use

estimated
Flow 5 gals. per minute
Used year around for

stock water supply

Signature of Owner Leo Cremer
Date Dec 30-1963

STATE OF MONTANA
COUNTY OF SVELT

I, the undersigned, having first been duly sworn, depose and say that the above named Leo Cremer is the appropriator and claimant of the above named water right mentioned in the foregoing notice of completion of groundwater appropriation without well and the person who has subscribed hereto, as the appropriator and claimant, is at least 18 years of age and is the owner of said foregoing notice and that the contents and terms thereof are true

Subscribed and sworn to before me, this 12th day of Dec, 1963

Notary Public for the State of Montana
Residing at

My Commission expires 12

34324

82890

STATE OF MINN.

County of _____

Filed _____ 25-

of Jan 64

at 4 P.
Arne Hansen

By _____
Notary

File No. 82778T. 4 N. R. 16 E.

DUPLICATE

County Sweet Grass

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

R
JAN 27 1964

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 28 Dec. 1963Owner Ralph E. Fair Inc. Address Melville Mont.

Contractor (if any) _____

Address of Contractor none

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.

Gravity flow to tankhas been in use since 1900

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 _____

10 miner inches, continuous flow1/4 Sec. 31 T. 4 N. R. 16 E.

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

♂ Spring

Signature of Owner Ralph E. Fair Inc. By: [Signature]Date 28 Dec. 1963

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

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

87778

STATE OF MONTANA, } ss.
County of _____

Filed this 25 day
of Jan 1964
at 200 P.M.
Arne Haim
by _____
Deputy.

FILE NO. 82897

T. 4N

2. 16E

STATE OF MONTANA
ADMINISTRATOR OF BOREWATER CODE
OFFICE OF STATE ENGINEER

MAR 29 1961

DATE OF COMPLETION OF GRANTOR'S APPLICATION
JULY 1961

(Under Chapter 237, Ontario, Solicitor's Act, 1961)

Date of appropriation of Groundwater 12-30-63

Owner Leo Greener Address Helville, Mont

Continuation (if any) *None*

Address of Contractor _____

Date Started unsubscribed Date Completed -

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

gravity flow springs
originating from
underground sources

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate.
 16. If no periods of use, *estimated*

Flow 39 gals per minute
used year around for
stock water. Barney Parrish
Signature of Owner

Structure of Cancer

Date Dec 30 1983

Sec 32 TAN ILE
Indicate point of appropriation
and place of use, if possible.

No 1 - NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 32
No 2 - NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 32
No 3 - NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 32

STATE OF NEW YORK
COUNTY OF NEW YORK

...and ... and
...of ...
...the ...
...the ...
...the ...

1. The following information is being furnished to you for your information only. It is not to be used for any other purpose. 12

United States for the State of Montana
 10-2-1946

doi:10.1371/journal.pone.0141425.g002

82892

STATE OF CALIFORNIA
County of Santa Clara
FILE NO. 25
of Jan 25 1964
at 4 P
Arne Hansen
By _____
Specially.

273
FILE NO. 87893

1.4 N 1.16 E
SWEET GRASS COUNTY

STATE OF MONTANA
ADMINISTRATOR OF PUBLIC WATER CODE
OFFICE OF SURVEY ENGINEER

JAN 29 1964

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION
VICINITY WELL
(Under Chapter 437 Montana Statutes (Jan, 1961))

Date of appropriation of Groundwater 12-30-63

Owner Leo Cremer Address Helwille, Mont

Contractor (if any) none

Address of Contractor none

Date Started undrilled Date Completed -

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

gravity flow
springs originating
from underground
sources

No 1

No 2

Sec 33 T4N 16E
Indicate point of appropriation
and place of use, if possible.

No 1 - SW $\frac{1}{4}$ NW $\frac{1}{4}$
No 2 - NW $\frac{1}{4}$ SE $\frac{1}{4}$

Quantity of water developed and used with explan-
ation of use to measure or estimate such amount.
If use is intermittent estimate approximate
length of periods of use

Flow 5 gals per minute
used year around for
stock water for ranch

Signature of Owner

Date Dec 30 1963

STATE OF MONTANA
COUNTY OF SWEET GRASS

I, the undersigned, being first duly sworn, depose and
say that the above is a true and correct copy of the
notice of completion of groundwater appropriation without well and the person
who has appropriated the water, or the appropriator, and claim-
ant, and that the contents of said foregoing
notice and the statements therein stated are true.

Subscribed and sworn to before me, this _____ day of _____, 1963

Notary Public for the State of Montana
Residing at _____

My Commission expires _____ 1963

34321

82893

STATE OF OREGON } ss
County of Clatsop }

Subscribed and sworn to before me this 25th day of Jan 4 1964
at _____ P.M.
by _____

By _____
Notary Public

FILE NO. 82894

T. 4N R. 16E
SVELT GRASS COWLEY

STATE OF MONTANA
ADMINISTRATOR OF DEPARTMENT CODE
OFFICE OF ALICE E. OLIVER

JAN 29 1963

NOTICE OF COMPLETION OF GRASS WATER APPROPRIATION
TITHE WELLS
(Under Chapter 237 Montana Session Laws, 1961)

Date of appropriation of Groundwater 12-30-63

Owner Leo CREMER Address Melville, Mont.

Contractor (if any) none

Address of Contractor none

Date Started undeveloped Date Completed -

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

gravity Flow spring
originating From
underground sources

SEE NE 1/4 Sec 33 T4N 16E
Indicate point of appropriation
and place of use, if possible.

Quantity of water developed and used with explanation of use used to measure or estimate such amount. If use is intermittent estimate appropriate length of periods of use estimated

Flow 5 gals per minute
used year around for
stock water Bummy Ranch

Signature of Owner Leo Cremer

Date Dec 30 1963

STATE OF MONTANA
OFFICE OF ALICE E. OLIVER

I hereby first seen, duly sworn, depose and say that I am of lawful age and the proprietor of the water right mentioned in the foregoing notice of completion of groundwater appropriation without well and the person who subscribed thereto, and the appropriation and claim; and that I know the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me, this _____ day of _____, 1963.

Notary Public for the State of Montana
Residing at _____

My Commission expires _____ 1963.

82894

STATE OF TEXAS }
County of Tarrant } So
Plat No. 25 }
of Jan A.D. 1964 }
St. 4 }
Arne Haem }
By }
DAY.

FILE NO. 82891

T. 4 N. R. 16 E
SWEET GRASS COUNTY

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 29 1964

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION
WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of appropriation of Groundwater

12-30-63

Owner Leo Cremer

Address

McLuette Hunt

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

Gravity flows springs
originating from
underground sources

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

estimated flow 5 gals per
minute Used for stock

water for crop ground

Signature of Owner
Leo Cremer
Date Dec 30 1963

STATE OF MONTANA
COUNTY OF SWEET GRASS

having first been duly sworn, depose and say that he of lawful age and the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation without well and the person whose name subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true

subscribed and sworn to before me, this day of , 19

Notary Public for the State of Montana
Residing at

My Commission expires 19

34325

82891

25
of Jan 64
at 4 P
Arne Sam

By _____

File No. 82863T. 4N R. 16E

DUPLICATE

County Sweet Grass

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

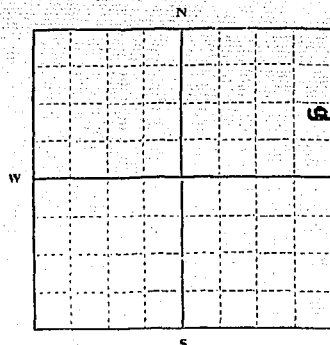
JAN 29 1964

STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Leo Bremer of Medville
(Name of Appropriator) (Address) (Town)
County of Sweet Grass State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 NE Sec 35, T. 4N, R. 16E

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 when used
3. Date or approximate date of earliest beneficial use; and how continuous the use has been.
1915
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.
not applicable
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.
electric pump when used
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
1915
8. The depth of water table.
90 ft
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.
100 ft deep
6 1/2 inch
drilled well
10. The estimated amount of groundwater withdrawn each year.
250,000, when used
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

Quincy Ranch
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.

34291

82863

STATE OF NEW YORK, } ss.
County of Saratoga.

Filed this 25 day
of Jan A. D. 1964
at 4 P. M.
Arne Hume

By _____
Notary

Abstract—The purpose of this study was to determine the effect of a 12-week training program on the heart rate (HR) and heart rate reserve (HRR) of sedentary middle-aged men. The subjects were divided into two groups: a control group and a training group. The control group consisted of 10 men who did not exercise regularly, and the training group consisted of 10 men who participated in a 12-week training program. The HR and HRR were measured at rest and during maximal exercise before and after the training program. The results showed that the HR and HRR of the training group increased significantly after the training program, while the HR and HRR of the control group remained unchanged. These findings suggest that a 12-week training program can improve the cardiovascular fitness of sedentary middle-aged men.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

West House

TWP. 2 17

Rge. 17 €

[illegible]

JW 3

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

File No. 83094T. 4N R. 17E

DUPLICATE

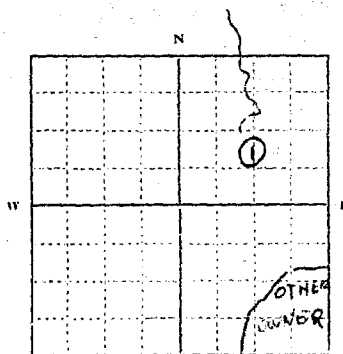
County SWEET GRASS

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAR 19 1964

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

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater MARCH 12, 1964Owner E. M. Adams Address MELVILLE, MONT.Contractor (if any) NONEAddress of Contractor not applicableDate Started not appl. Date Completed not appl.Describe means of obtaining groundwater without a well "as in sub-irrigation and other natural processes". Include depth water when applicable. WATER FOR STOCKWATERING UTILIZING NATURAL FLOW OF SPRING1/4 Sec. 4 T4N R17E

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

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. DIFFICULTTO ESTIMATE 135,000 GALS. IF100 COWS GRAZE 3 MONTHSSignature of Owner E. M. AdamsDate MARCH 12, 1964

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.

83074

STATE OF MONTANA, } ss.
County of Sweet Grass. }
Filed this 17 day
of March A. D. 1964
at 30 o'clock P.M.
Arne Haen
County Clerk.
Deputy.

FILE NO. 82898

E. 4 N R. 17 E
SWEET GRASS COUNTY

STATE OF MONTANA
ADMINISTRATIVE DEPARTMENT
OFFICE OF STATE ENGINEER

JAN 29 1964

NOTICE OF COMPLETION OF WATER APPROPRIATION CASE ENG
WATER WELL
(Under Chapter 237, Montana Statutes, 1961)

Date of appropriation of Groundwater 12-30-63

Name *Leo Cramer* Address *Helmuth, Mont*

Contractor (if any) *none*

Address of Contractor *none*

Date of completion of development *12-30-63* Date Completed

Description of obtaining groundwater without
a well "as in sub-irrigation and other natural
processes". Include depth to water when
applicable *Spring 40 ft. below*
into natural hole

Quantity of water developed and used with expan-
sion of record used to measure or estimate such amount.
If use is intermittent estimate approximate
length of periods of use *estimated 1 kw*

0.9 gals per minute used year
around for stock water

Signature of Owner *Leo Cramer*

Date *Dec 30 1963*

SE 1/4 Sec 4 T. 4 N R. 17 E
Indicate point of appropriation
and place of use, if possible.

STATE OF MONTANA
OFFICE OF STATE ENGINEER

Whereas, the said Leo Cramer, does
and
of lawful and the said Leo Cramer, the appropriator
of the water and water right mentioned in the foregoing
notice of appropriation of groundwater without well and the power
of the State of Montana, in the appropriation and claim-
ing of the water right mentioned in the foregoing
notice of appropriation of groundwater without well, stated are true

Notarized and sworn to before me, this _____ day of _____, 1964

Notary Public for the State of Montana
Residing at _____

My Commission Expires _____ 1964

34332-

82898

STATE OF ALABAMA

COUNTY OF DADE

IN

25

day

of

Jan

1964

at

4

P.M.

Arue Hain

By

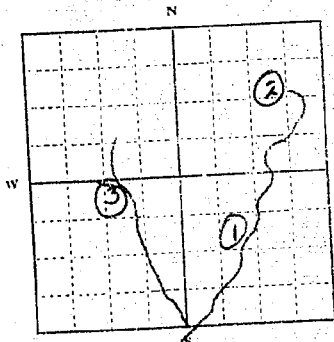
By name

File No. 83093

DUPLICATE

T. 4N 17E
County SWEET GRASSSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEERRECEIVED
MAR 19 1964Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater MARCH 12, 1964
Owner E.M. ADAMS Address MELVILLE, MONT.
Contractor (if any) NONE
Address of Contractor NOT APPLICABLE
Date Started NOT appl. Date Completed NOT appl.Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. WATER FOR STOCK WATERING UTILIZING NATURAL FLOW OF THESE SPRINGS. NO SPECIFIC DEVELOPMENT.1/4 Sec. 5 T. 4N R. 17E
Indicate point of appropriation and place of use, if possible.Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use. QUANTITYOF WATER USED DIFFICULT TO ESTIMATE. 135,000 GALS PER YEAR IF 100 COWS GRAZE HERE 3 MONTHS.

Signature of Owner

Date

E.M. Adams
FOR E.M. ADAMS
MARCH 12, 1964

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.

35498

83093

STATE OF MONTANA, } ss.
County of Sweet Grass.

Filed this 17 day

of March A. D. 1964

at 1:30 o'clock P.M.

Aune Hahn
County Clerk

By _____ Deputy

CV 3
FILE NO. 82913

7.4 A.

1712

SEVEN GRASS COUNT

STATE OF MONTANA
ADMINISTRATION OF BRIDGEWAY CODE
OFFICE OF STATE ENGINEER

01 JAN 29 1964

NOTICE OF COMPLETION OF GRANT-INTER APPROPRIATION
JIMMIE W. NELL
(Under Chapter 237, Florida Statutes, as Amended, 1961)

Date of appropriation of Groundwater 12-30-63

Owner Leo Cicmer Address Honolulu, Hawaii

Contractor (if any) None

Address of Contractor **DORF**

Date Start *undveloped* Date Completed —

Describe means of obtaining groundwater without a well "such as sub-irrigation and other natural processes". Include depth to water when available. Groundwater Flow

springs originating
From underground sources

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 *estimated flow*

5 gals per minute used year
around for stock water

Signature of Owner

Notice

Dec 30 1963

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

No I - SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 6

N. 2- A1E $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 6

No 3- NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 6

SECRET

...having first been daily shown, dense and
day that he for lawful use and the appropriate
and claim of the above water right mentioned in the foregoing
notice or violation of groundwater appropriation without well and the person
and the person who is described therein, as the appropriation and claim
and that he know the content of said gasoline
notice with the western and Texas State and true.

and certified and sworn to before me, this _____ day of _____, 19____.

Attorney Public for the State of Montana
 Helena, Montana

My Commission expires: 12...

3433

82903

STATE OF TEXAS

County of _____

Term 25

of

Jan

64

at

4

P

Gene Ham

By

Deputy

CV 3

FILE NO. 82914

T. 4N

R. 17E

SWEET CREEK CANYON

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF QUARTER ENGINEER

JAN 29 1963

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION
WELL

(Under Chapter 237, Montana Statutes, 1961)

Date of appropriation of Groundwater 12-30-63

Owner LEO CANNON Address Helleville, Mont

Contractor (if any) none

Address of Contractor none

Date Started undeveloped Date Completed —

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

springs originating from underground sources

Sec 8. T. 4N 17E
Indicate point of appropriation
and place of use, if possible.

SE 1/4 SW 1/4

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate length of periods of use estimated flow

5 gals per minute used year around Cannon Ranch

Signature of Owner Leo Cannon

Date Dec 30, 1963

STATE OF MONTANA
COUNTY OF TETON

Having first been duly sworn, depose and say that I, the undersigned, of lawful age and being the appropriator and claimant of the order and water right mentioned in the foregoing notice of appropriation of groundwater appropriation without well and the person who has subscribed thereto, as the appropriator and claimant, do hereby depose and say that the contents of said foregoing notice, with the matters and things therein stated are true.

Subscribed and sworn to before me, this _____ day of _____, 1963

Notary Public for the State of Montana
Residing at _____

My Commission expires _____ 19____

34338

82904

STATE -

County of Prince George

Pl 25

of Jan 64

at 4

By Rme Hoen

By

Q. 3
FILE NO. 82400

T. 4 N R. 17 E
SWEET GRASS COUNTY

STATE OF MONTANA
ADMINISTRATIVE CODE
OFFICE OF STATE ENGINEER

JAN 29 1964

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION IN ENGINEERED
WATER WELL
(Under Chapter 237, Montana Session Laws, 1961)

Date of appropriation of Groundwater 12-30-63

Name Leo Gremer Address Helville, Mont

Contractor (if any) None

Address of Contractor None

Date Started Undeveloped Date Completed None

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

Originating From Underground
SOURCES

Quantity of water developed and used with explain-
of method used to measure or estimate such amount.
If use is intermittent estimate approximate
lengths of periods of use estimated 1-2

6 gals per minute used
year around for stock
water

Signature of Owner Leo Gremer

Date Dec 30 1963

SE 4 SE 4 Sec 9. T. 4 N. R. 17 E
Indicate point of appropriation
and place of use, if possible.

STATE OF MONTANA
OFFICE OF STATE ENGINEER

Having first been duly sworn, depose and say that I am the owner of the water right mentioned in the foregoing notice of completion of groundwater appropriation without well and the person who has subscribed thereto, as the appropriator, and claim-
and I depose that the contents of said Certificate of
notice and that the matters and things therein stated are true

Subscribed and sworn to before me, this _____ day of _____, 19____

Notary Public for the State of Montana
Residing at _____

My Commission expires _____ 19____

34334