

GW

File No.

DUPLICATE

T. 14N R. 58E

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

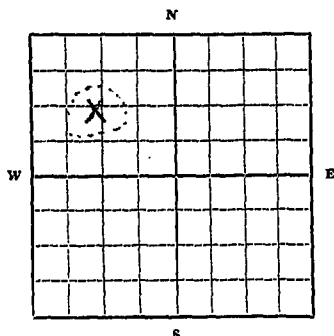
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
SEP 9 1962

STATE ENGINEER

1. ALDA S. HERIGSTAD, of Box 9, Hodges
(Name of Appropriator) (Address) (Town)

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



N. 1/4 Sec. 9 T. 14 R. 58

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
AGRICULTURAL
3. Date or approximate date of earliest beneficial use; and how continuous the use has been DECEMBER 1961
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 gpm. (B.R. Min. in only TEST MADE HOWEVER MUCH GUARANTEED CAPACITY)
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 ONLY TO BE USED FOR IRRIGATING 3 TO 4 ACRES IN EXACT OF DRY YEAR
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Presently using 1. H.P. Motor & Deep Sacks only

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater DECEMBER 15th TO DECEMBER 20, 1961

8. The depth of water table 535' ^{DEPTH OF WELL} FROM SURFACE - FOR 111' SAND WATER 448' - 535'

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 with Rotary 1" to 535' - casing 4" ID perforated 450' to 535' - static water level 170' - Pumping water level 200' at 5 gpm. (B.R. Min.)

10. The estimated amount of groundwater withdrawn each year 172,500 gals.

11. The log of formations encountered in the drilling of each well if available 15-60' 80% - 162-164' Rock 225-240' Rock - 250-252' Coal - 272-275' Rock - 405-408' Rock - 448-448' Rock 448'-535' SAND

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

Signature of Owner

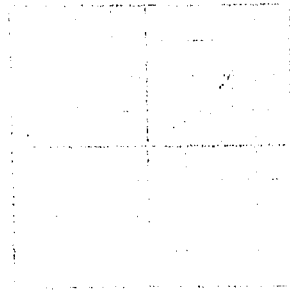
Date September 25, 1962

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

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

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

2214



280797

STATE OF MONTANA
County of Dawson

Filed for record this 4th day of
Oct. A. D. 1962, at
2:40 o'clock P.M.

Gordon W. Russell
County Clerk and Recorder.

By Alice Austin Deputy.

Fee pd. 2.00

File No.

T. 14N R. 38E

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

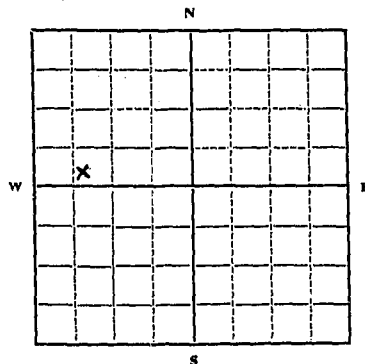
(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
NOV 15 1963

STATE ENGINEER

Hodges

1. Northern Pacific Railway Co., of _____, (Name of Appropriator) _____ (Address) _____ (Town)
County of Dawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

SW 1/4 NW Sec. 9 T. 14N R. 38E

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 purposes
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. April 26, 1951 to present
4. The amount of groundwater claimed (in miner's inches or gallons per minute). 5 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. None
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Hand pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Started April 2, 1951 Completed 26, 1951
8. The depth of water table. 92 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 inch drilled well, 192 feet deep
10. The estimated amount of groundwater withdrawn each year. 200,000 gallons
11. The log of formations encountered in the drilling of each well if available. see attached log 44
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 [Signature]Date Nov 8, 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.

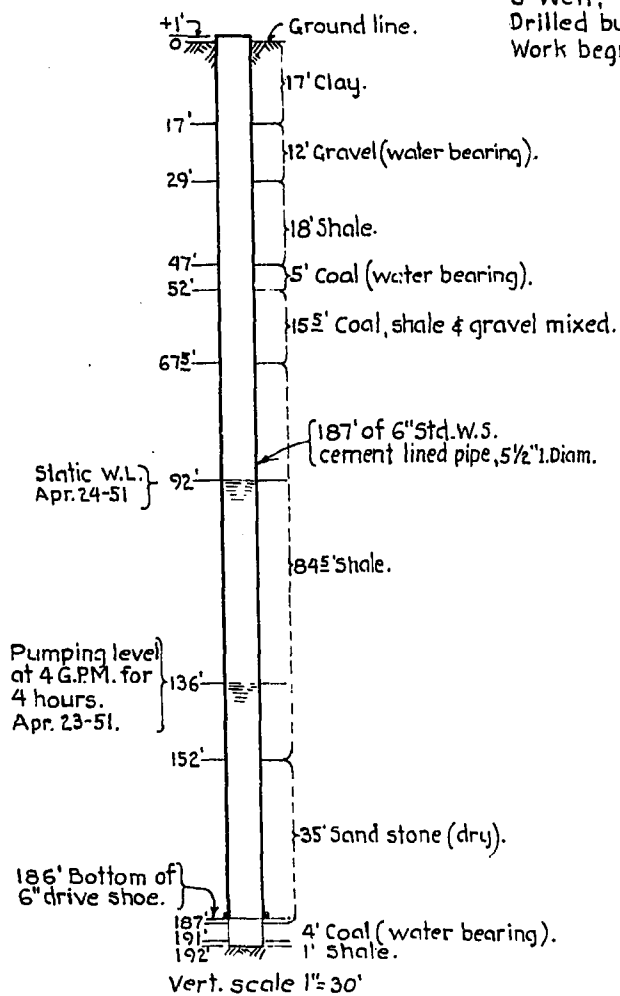
Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

7078

Fee pd. 2⁰⁰

HODGES, MONT. AFE 437-49. Section House Well.
 6" Well, 192' deep.
 Drilled by E.A. Bodin, N.P.Ry.
 Work begun Apr. 2-51, Completed Apr. 26-51.

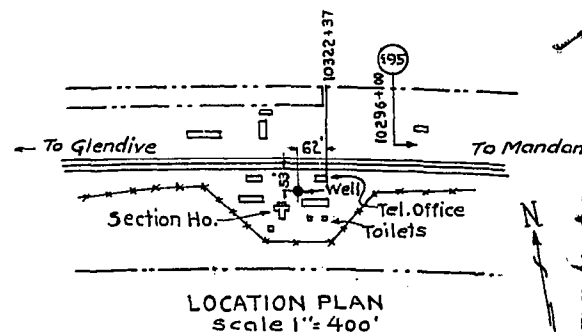
Mont. 44
 4/30-51.
 Yellowstone, Div.



Water Analysis, 4/26-51.

Calcium bicarbonate	1.3 G.P.G.	Expressed as Ca CO ₃
Sodium "	46.7 "	
" carbonate	6.4 "	
" sulfate	10.8 "	
" chloride	4.5 "	
Silica	2.0 "	
Iron	0.6 P.P.M.	
Turbidity	5	
pH	7.0	
Total dissolved solids	72.3 G.P.G.	
Turbidity	5	

Note: See file 1233-1 for drilling and test data.



File No. _____

T. 14 R. 58

DUPLICATE

County Dawson

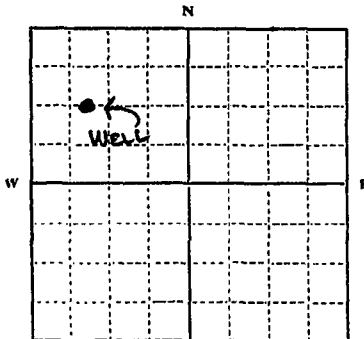
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. ALDA S. HERIGSTAD, of HODGES
(Name of Appropriator) (Address) (Town)
County of DAWSON State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



ALL WEST 1/2 SEC 10
1/4 Sec. T. 14 R. 58

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 USED SINCE BUILT IN 1961
4. The amount of groundwater claimed (in miner's inches or gallons per minute) ADEQUATE TO WATER UP TO 100 HEAD LIVESTOCK DAILY - NO OTHER MEASURE
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 PUMP
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater JULY 1961
8. The depth of water table 6'
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 24" DIAM. HOLE 12' DEEP
10. The estimated amount of groundwater withdrawn each year NOT MEASURED IN GALLONS OF WATER THAN WHAT LIVESTOCK USE
11. The log of formations encountered in the drilling of each well if available GRAVEL 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

Alda S. Herigstad

Date 12-26-63

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

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

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

14239

286507

STATE OF MONTANA
County of Dawson

Filed for record this 26th day of
December A. D. 1963, at
11 o'clock P.M.
Gordon W. Russell
County Clerk and Recorder.

By _____ Deputy.

Hee Rd #200

STATE WATER CONSERVATION BOARD

File No. _____

NCV 10 1966

T. 14 R. 58

DUPLICATE

Bills _____

100 _____

Coyle _____

Derlinton _____

Pickert _____

(Elev. above sea level) _____

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater

Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 937, Montana Session Laws, 1961)

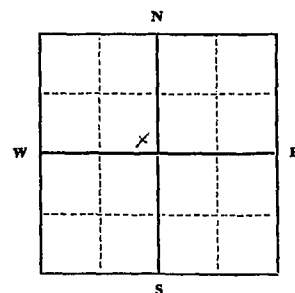
Owner T. C. Inc Address Noddy, Mont.Driller C. H. Starr Address Box 1183 - NoddyOperator Francis Baker " 749 - Sidney

Date of Notice of appropriation of groundwater _____

Date well started 10-27-66 Date completed 10-28-66Type 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)
5 1/2"	4" 11# per ft.	0	54			

Static Water Level for non-flowing well 21 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 40 feet
at 12 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested BailerLength of Test 1 Hr

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

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

(Continue on reverse side)

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

Show exact depth of bottom.

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

Please answer all questions. If not applicable, no state, otherwise the form will be returned.

Driller's License Number

Driller's Signature

41,598

[illegible]

1. *How do you think the world will be different in 20 years?*
 2. *What do you think will be the biggest challenge for the world in 20 years?*
 3. *What do you think will be the biggest opportunity for the world in 20 years?*
 4. *What do you think will be the biggest threat to the world in 20 years?*
 5. *What do you think will be the biggest achievement for the world in 20 years?*
 6. *What do you think will be the biggest failure for the world in 20 years?*
 7. *What do you think will be the biggest lesson for the world in 20 years?*
 8. *What do you think will be the biggest hope for the world in 20 years?*
 9. *What do you think will be the biggest dream for the world in 20 years?*
 10. *What do you think will be the biggest reality for the world in 20 years?*

297456

County of Dawson

Filed for record this 9th day of

November A. D. 1966 at

4:00 o'clock 4 m.

Handwritten: J. H. Russell

County Clerk & Recorder

By Patricia Peterson Deputy

Gr. Pd # 2.00

GROUNDWATER INDEX

Page 1 of 1County Dawson Twp. 197 Rge. 536

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
1	Hess, John & Solweig	SW 4	286952	
1	Brythorn (Violet & Son)	484	286925	
1	Lassak, Edwin & Wm	484	278644	
2	Hess, John	482	293871	
4	Roesler, Edwin & Ruelin	482	299021	
9	Montana Highway Commission	482	314376	
10	Kalpell, Bruce	482	285122	
11	School District 10	482	304568	
11	Rein, Earl	579 Well Log		
12	Bauchard, Arthur &	484	286753	
12	Bauchard, Donald L.	484	286551	
14	Bauchard, Donald L.	484	286551	See Sec 12 above
14	Rein, Earl	482	302860	
15	Roesler, Jacob &	483	286815	
16	Yuck, David	579 Well Log		
16	Roesler, Jacob & Jack Huff	484	286876	
16	Siegler, Fred	482	306155	
20	Hess, John & Solweig	484	286952	(T.H.N.R. 54E)
30	Hess, John & Solweig	484	286952	(T.H.N.R. 54E)
1	Hess, John & Solweig	SW 4	286952	

GV

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

File No. 11

DUPLICATE

T. 13N - R. 53E

County Dawson

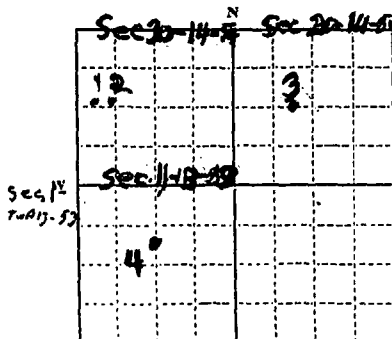
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 14 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. John P. Solvieg Hess, of C. B. Route Glendive, Mont
(Name of Appropriator) (Address) (Town)
County of Dawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



20-14-54
1/4 Sec. 30 T. 14 R. 54

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

1-13-53

2. The beneficial use on which the claim is based: 1. Household & Stock
2. Irr. (2) Household, stock, & Irr. (3) Livestock (4) Livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: (1) 1929 cont. (2) 1961 cont.
(3) 1955 cont. (4) 1955 cont.

4. The amount of groundwater claimed (in miner inches or gallons per minute): (1) 566 GPM (2) 2200 GPM (3) 1500 GPM
4. 600 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:
1. 1700 2. 1700 3. 1700 4. 1700 5. 1700 6. 1700 7. 1700 8. 1700 9. 1700 10. 1700
30 acres in sec 30-14-54

6. The means of withdrawing such water from the ground and location of each well or other means of withdrawal:
1. Cylinder and pump 2. Cylinder and pump 3. Cylinder and pump 4. Cylinder and pump

7. The date of completion and completion of the construction of the well, wells, or other works for withdrawal of groundwater: (1) 1955 (2) 1961 (3) 1955

(1) 30' (2) 110' (3) 25' (4) 30'

8. The depth of water table:

9. (1) 2' (2) 2' (3) 2' (4) 2' (5) 2' (6) 2' (7) 2' (8) 2' (9) 2' (10) 2'
Indicate the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.

10. The estimated amount of groundwater withdrawn each year:

not known
not known

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 required in carrying out the policy of this act, including reference to book and page of any county record: None

Signature of Owner

Date

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.

32057

286952

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of
December A. D. 1963, at
4:30 o'clock P.M.

Gordon W. Russell
County Clerk and Recorder.

By _____ Deputy.

File No.

T. 13 R. 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 14 1964

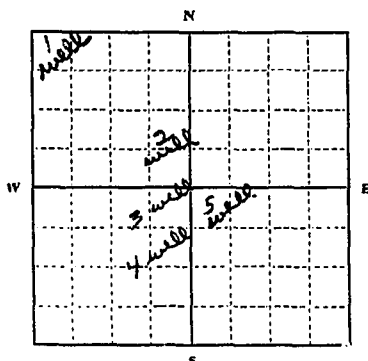
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Viola Buxbaum & Sons Donald of C. B. R. G. & Sons
(Name of Appropriator) (Address) (Town)

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



$\frac{1}{4}$ Sec. 1 T. 13 R. 53

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 cattle
farm + house use
3. Date or approximate date of earliest beneficial use; and how continu-
ous the use has been No. 1. 10 mo. cattle No. 2-3 mo
for labor No. 5 12 mo house No. 3-4 May
6 cattle 12 mo.
4. The amount of groundwater claimed (in miner's inches or gallons
per minute) 10 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 loca-
tion of each well or other means of withdrawal wind mill in
pasture well 2-3-4 electric wells 5
home place and hand pump for labor
house
7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater. These commenced when we bought
the place March 1963
8. The depth of water table. don't know
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 is 50 ft. No. 2-30 ft
No. 3-4 are 40 ft.
10. The estimated amount of groundwater withdrawn each year. 675,000 gal
11. The log of formations encountered in the drilling of each well if available. don't know
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. don't know

Signature of Owner Viola Buxbaum

Date Dec. 19 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.

32030

286925

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of
December A. D. 1963, at
4:30 o'clock P.M.
Gordon W. Russell
County Clerk and Recorder.

By _____ Deputy.

GW

File No.

T. 13-N. R. 53-E

DUPLICATE

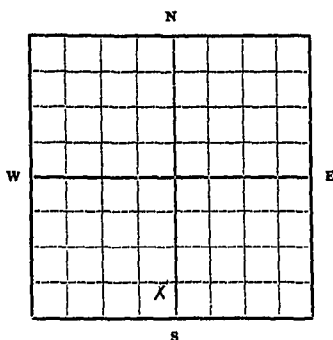
County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

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

1. Erwin E. and Vera Lassie, of C.B.R. Glendive
(Name of Appropriator) (Address) (Town)
County of Dawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 SW Sec. 1 T. 13-N. R. 53-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 lives stock and personal use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been June 1947
used steady
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 8 gallons in 1 minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not Used
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Artesian
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater June 1947
8. The depth of water table 822
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 2" casing 822'
10. The estimated amount of groundwater withdrawn each year 350,000
11. The log of formations encountered in the drilling of each well if available Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record None

Signature of Owner Erwin E. Lassie

Date March 9, 1962

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

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

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

1684

278644

STATE OF MONTANA
County of Dawson

Filed for record this 9th day of

May, A. D. 1962, at

4:00 o'clock P. M.

Gordon W. Russell
County Clerk and Recorder.

By Alice Austin Deputy.

Fee pd. 2⁰⁰

File No.

OCT 15 1965

T. 13N R. 53E 2

DUPLICATE

Bille _____ McDermott _____
 Butzerin _____ McNulty _____
 Coyle _____ Morton _____
 Darlington _____ Sullivan _____

County Dawson

STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

Top of Ground _____

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

0' -

Yellow Sandstone

70'

quicksand

72'

Gravel

77'

Gray Sandy Shale

94'

Notice of Completion of Groundwater
 Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner John Hess Address C.B.R. Fallon, Mont.Driller Joe Johnson Address Terry, Mont.

Date of Notice of Appropriation of Groundwater.....

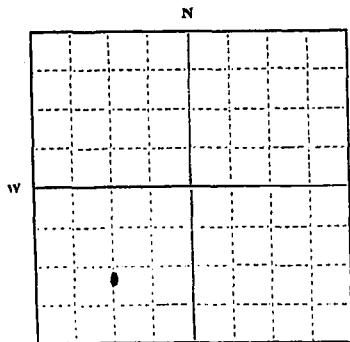
Date well started Sept. 15, '65 Date Completed Sept. 18, '65

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" I.D. 19 1/2 lb. hr. ft.	0'	94'	5 slots 4 Holes 1/8" & 7/8"	72'	84'



1/4 Sec. 2 T. 13N R. 53E

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 65 feet.

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

Pumping Water Level 70 feet at 15+ gal. per minute.

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

How Tested Baler Length of Test 4 hrs.

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).....

154
 Driller's License Number

Joe Johnson
 Driller's Signature

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

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

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

39689

293871

STATE OF MONTANA

County of Dawson

Filed for record, this 14th day of

Oct A. D. 1965 at

9:00 o'clock A. M.

Landon W. Russell
County Clerk & Recorder

By Miss Arthy Deputy.

See pd. 205

File No. _____

STATE WATER CONSERVATION BOARD

T. 13-N R. 53-E

DUPLICATE

APR 25 1967

County. DAWSON

 Billie _____
 Butler _____
 103 Co. _____
 Darlington _____
 Diekert _____

 McDermott _____
 McNulty _____
 Merion _____
 Sullivan _____

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level)

Notice of Completion of Groundwater

Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

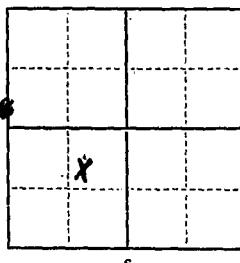
Owner Edvin + Rubin Roessler Address Glendive, MONT.Driller Hickson Water Well Dr. Co. Address Glendive

Date of Notice of appropriation of groundwater: _____

Date started 3-28-67 Date completed 4-11-67Type of well Drilled Equipment used Rotary
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	4 1/2" x 9"	0	70			
7 3/4"	2 3/8"	70	1210	1/2" holes	875	941
					990	1010
					1190	1210



Static Water Level for non-flowing well _____ feet.

Shut-in pressure for Flowing Well 6"

Pumping Water Level _____ feet

at _____ gal. per minute.

Discharge in gal. per min. of flowing well _____

8

How Tested BailedLength of Test 5 hrs.Remarks: (Gravel packing, cementing, packers, type of shutoff) Rebber packer@ 700'collar seated @ 70'

(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).

0-24- grey to yellow silty clay
 28-44- fine sandy grey cl. No water
 44-74- grey silty cl.
 74-76- Hard coal
 76-112- grey & blue clay
 112-140- fine sandy grey cl.
 140-146- med. hard grey s. stone
 146-164- med. grey sandy shale
 164-170- 8' gal.
 170-175- X- hard gr. s. s. into chert
 175-234- blue-grey clay w/ traces of coal & brown cl.
 234-255- soft coal
 255-263- blue-grey clay
 263-30- sandy grey sh.
 30-33- grey silty cl. w/ some thin hard grey sh. str.
 33-346- Hard coal
 346-384- brown grey cl.
 384-493- Hard coal
 493-492- grey, brown & black shale
 492-524- fine grey s. stone
 524-528- Hard coal
 528-941- mixed brown clay/coal str.
 941-966- X- hard s. stone
 966-1012- blue-grey cl. w/ calc. str.
 1012-1015- coal & thin s. stone str.
 1015-1052- sticky blue shale
 1052-1055- fine sharp blue s. stone
 1055-116- X- hard grey s. s.
 116-863- brown to blue sh. w/ coal str.
 863-107- Hard blue s. s.
 107-115- soft sharp black sand
 115-115- blue sh.
 115-115- blue sh.
 115-115- med. soft dark sand
 115-115- Hard grey s. s.
 115-115- fine grey sandy sh.
 115-115- trace coal - brown to black sh.
 115-115- sandy grey sh.
 115-115- dark grey sharp sand.
 115-115- Hard coal & hard br. sh.
 115-115- dark sand
 115-115- sandy gr. sh. w/ s. coal
 115-115- med. soft grey s. s.
 115-115- brown to grey sh. w/ s. coal
 115-115- brown to blue flaky sh.
 115-115- Hard grey s. s. to s. stone
 115-115- brown to blue sh. w/ coal str.
 115-115- blue sh.
 115-115- Hard grey s. s.
 115-115- med. soft grey s. s.
 115-115- med. soft grey s. s.
 115-115- X- hard s. stone
 115-115- X- hard s. stone
 115-115- X- hard s. stone

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

 Driller's Signature Edvin Roessler

41938

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Montana Highway Commission

Address Helena, Montana

Date well started July 6, 1971

completed December 7, 1971

Type of well Drilled

Equipment used Rotary Drill

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Refrigeration ☐ Other ☒ Garden/Lawn ☐

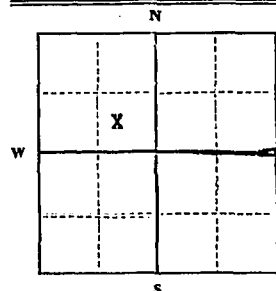
*Describe Rest Area Water Well

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS
5-5/8"	2" galv. pipe	6.5'	1119.0'	Kind Size From (Feet) To (Feet)
				3" x 1/2" 919.0 1119.0'

2" gate valve set at 6.5 ft.
Frost free valve set at 6.5' with stand pipe extending 2.0' above ground level.
8" casing set to 6.5'



Static water level Artesian ft.*
Pumping water level 50 ft.*
at 50 gallons per minute, measured 5 minutes after pumping began.
*Measured from ground level.
Well developed by Neoprene packer set at 799.0'
for 185.0' hours.
Power 1 Pump 1 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

SE 1/4 NW 1/4 Sec. 9
T. 13. N. N. R. 53E E
S W
to 6.5' Frost free valve set at 6.5' & extending to 2.0' above ground level.

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

Driller's Signature Kenneth R. Kiley

Driller's Address Helena, Montana

LICENSE NO 208

DRILLER'S LOG

Indicate the character, color, thickness of strata such as silt, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level) 2234.0'

From (Feet)	To (Feet)	Description
0.0	14.5	Loose brown sandy silt.
14.5	18.9	Dense gray sandy gravel.
18.9	37.5	Dense gray shale with sandstone stringers.
37.5	46.0	Dense black coal.
46.0	170.0	Dense gray shale with sandstone & coal stringers.
170.0	185.0	Dense black coal with water.
185.0	190.0	Dense gray sandstone.
190.0	450.00	Dense black shale with coal & sandstone stringers.
450.0	453.0	Dense gray sandstone
453.0	668.0	Dense gray shale with sandstone stringers.
668.0	920.0	Medium dense gray sandy shale.
920.0	1100.0	Medium dense gray sand with artesian water.
1100.0	1127.0	Dense green shale.
1127.0		Bottomed hole in dense green shale.

WATER ANALYSIS

pH	= 8.3
CO ₂	= None
Phenolphthalein	
Alkalinity	= 64 ppm CaCO ₃
Methyl Orange	
Alkalinity	= 704 ppm CaCO ₃
Total Solids	= 729 ppm
Total Hardness	= 4 ppm CaCO ₃
Conductivity	= 1.0 m.mhos
Water is not corrosive but is incrusting to metal.	
Sodium	355 mg/l
Ca	2.5 mg/l
Mg	1.26 mg/l
SAR	45.6

1127.0' Show exact depth of bottom

49611

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3. ...

2-11A ...

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314376

STATE OF MONTANA

County of Dawson

Filed for record this 20th day of

December, A. D. 19 71 at

8:00 o'clock P. M.

Donald H. Russell

County Clerk & Recorder

By Patricia Henson Deputy

Fee None

GW2

File No.

T. 13N R. 53

DUPLICATE

County Dawaon

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner Bruce Kalfell Address Terry, MontanaDriller Ira C. Bond Address Terry, Montana

Date of Notice of Appropriation of Groundwater

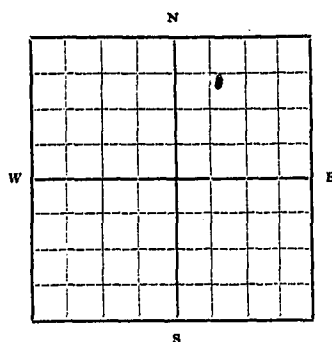
Date well started 9/18/63 Date Completed 9/20/63

Type of well Drilled Equipment Used Cabletool
(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 5/8 ID 25lbs	0	43	holes 5/16	39	43



NW 1/4 Sec 10 T3N R53

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

Show exact depth of bottom.
43 feet

Static Water Level for non-flowing Well 28 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 41 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested with bailer Length of Test 1 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)

Ira C. Bond
37

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 the Appropriator.

6075

285122

STATE OF MONTANA
County of Dawson

Filed for record this 25th day of

Sept. A. D. 1963, at
12:15 o'clock P.M.

Gordon W. Russell
County Clerk and Recorder.

By Alice Anthy Deputy.

Fee pd. \$ 2.00

File No.

T. 13 R. 53

DUPLICATE

MONTANA WATER RESOURCES BOARD

RECEIVED

LOG

NOV 25 1968

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEERCounty Dawson

Top of Ground

(Elev. above sea level)

Notice of Completion of Groundwater

Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

0 - 4 Brn. gumbo

4 - 15 Dr. Yellow Sandy gumbo

15 - 22 Blu gumbo

22 - 40 Sand & gravel

40 - 52 Yellow soapstone

& stringer of coal.

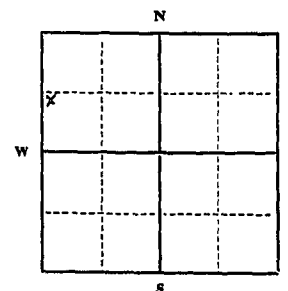
Owner School District #10-Dawson Address Edm. Moffitt-Felling, Mont.Driller Joe Johnson Drig. Address Terry, Mont.

Date of Notice of appropriation of groundwater

Date well started 8/19/68 Date completed 8/19/68Type of well Drilled Equipment used Cable Tool
(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"	6" ID 19#/ft.	+1	52	Holes 3/8"	30	52

Static Water Level for non-flowing well 33 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 42 feet at 7 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested BalerLength of Test 1 hr.

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

SWNW 1/4 Sec. 11 T. 13 R. 53

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

(Continue on reverse side)

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

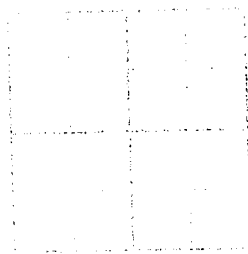
Show exact depth of bottom.

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

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

154
Driller's License NumberDriller's Signature Joe L. Johnson

44,799



304568

STATE OF MONTANA
County of Dawson
Filed for record this 21st day of
Nov 1968 at
12:30 o'clock P.M.
Charles A. Finney
County Clerk & Recorder
By Patricia J. Finney Deputy

DURBIN

RECEIVED
JUL 10 1957

T 13 R 53
County Dawson

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Carl Rein Address CBR Rt. Glendive
Driller Ira C. Bond Address Terry, Montana
Date Started July 1, 1957 Date Completed July 3, 1957
Location: Sec. 11 T. 13 R. 53 $\frac{1}{4}$ sec. NW $\frac{1}{4}$

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

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

Casing: 1' above surface ft. to 46 ft. Type Steel Size 6 5/8 OD

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 None Water come in at Bottom of casing

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

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

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

How tested: bailer

Length of test 3 hours

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

(over)

[illegible][illegible]

File No.

T. 13 R. 53

DUPLICATE

County. DAWSON

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

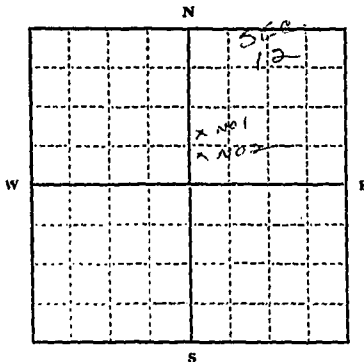
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

R
JAN 14 1964
STALE ENGINEER

1. ARTHUR W. BOUCHARD, of LAMBERT
(Name of Appropriator) (Address) (Town)

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



1/4 Sec. 12 T. 13 R. 53

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. OPERATION OF FARM, HOUSEHOLD + LIVESTOCK USE

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. #1 1940 ON
#2 1950 ON

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. #2 ARTESIAN (FLOWING UNDER PRESSURE) #1 PUMP JACK

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1940 1950

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. #1 WELL 30 FT. DEEP 6" CAST IRON SUBSINK NO. 2 WELL 910 FT. DEEP 2" STEEL SUBSINK

10. The estimated amount of groundwater withdrawn each year. 500,000 gal. 2 1/2 MILLION AVAILABLE FROM WELL.

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. NONE

Signature of Owner. Arthur W. Bouchard

Date. 12-30-63

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.

31870

286753

STATE OF MONTANA
County of Dawson

Filed for record this 30th day of
December A. D. 1963, at
4:50 o'clock P. M.

Gordon W. Russell
County Clerk and Recorder.

By _____ Deputy.

File No. _____

T. 13 R. 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 14 1964

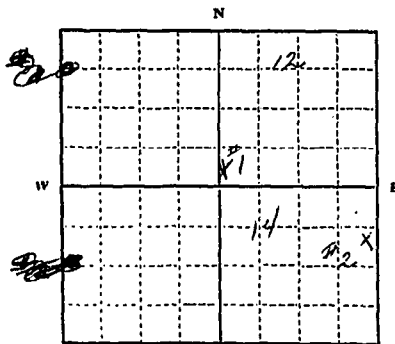
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Donald C. Bouchard, of Glendive Mont
(Name of Appropriator) (Address) (Town)

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



0-12-0-14
1/4 Sec. T. 13 R. 53

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 & Lifestock (#1) Household & Lifestock (#2)

3. Date or approximate date of earliest beneficial use; and how continuous the use has been #1 - 1940 on #2 1946 on

4. The amount of groundwater claimed (in miner's inches or gallons per minute) #1 20 gal./min #2 20 gal./min

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Irrigation of Lawn, Gardens, Shrubs etc. used by above named Appropriator

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal #1 Free flowing (Artesian) #2 Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater #1 1940 #2 1946

8. The depth of water table #1 - free flowing #2 - 25'

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 2" pipe to 910 feet

#2 Curb 4" with 1 1/2" cylinder & shallow well pump to a depth of 48'

10. The estimated amount of groundwater withdrawn each year #1 550,000 used but since this is free flowing - many more gallons are drawn. #2 400,000

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 Donald C. Bouchard

Date Dec 27 1963

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

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

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

31692

286551

STATE OF MONTANA
County of Dawson

Filed for record this 27th day of
December A. D. 1963, at
3:00 o'clock P.M.

Gordon W. Russell
County Clerk and Recorder.

By _____ Deputy.

File No.

T. 13 R. 53

DUPLICATE

MONTANA WATER RESOURCES BOARD

County Dawson

LOG

RECEIVED

MAY 22 1968

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

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

Notice of Completion of Groundwater

Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

Under Chapter 237, Montana Session Laws, 1961)

0' - 15' Yellow Sandy Soil
 15' - 33' Sand, Gravel & Quicksand
 33' - 105' Gumbo/streaks of coal
 105' - 108' Rock
 108' - 185' Gumbo/sts coal
 185' - 225' Sandstone/stks of shale
 225' - 370' Gumbo/stks of coal
 370' - 377' Rock (hard)
 377' - 390' Coal/stks of Gumbo
 390' - 393' Rock
 393' - 450' Gumbo
 450' - 465' Coal & Dk. Brn Shale
 465' - 482' Blu Gumbo
 482' - 484' Rock
 484' - 500' Coal & stks Gumbo
 500' - 530' Gumbo
 530' - 650' Shale & stks of Sandstone
 650' - 690' Sandstone
 690' - 780' Shale/sts sand
 780' - 860' Sandstone
 860' - 865' Shale

Owner CARL REINAddress CRS. GlandiveDriller JOE JOHNSON DRIGAddress Tarry, Mont.

Date of notice of appropriation of groundwater.....

Date well started 2/28/68Date completed 3/5/68Type of well DrilledEquipment used Rotary

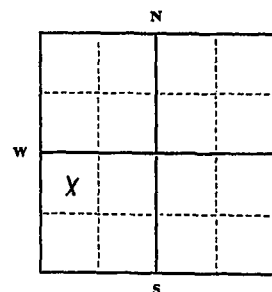
(Dug, driven, bored or drilled)

(Churn drill, rotary or other)

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"	5"	0'	34'	N O N B		
4 1/2"	2" ID 3.7#/ft.	0'	865'	Holes 3/8"	665'	865'



Static Water Level for non-flowing wellfeet.

Shut-in Pressure for Flowing Well 30#Pumping Water Levelfeet
atgal. per minute.Discharge in gal. per min. of flowing well
30 gpmHc. tested Open flowLength of Test 48 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff) Cemented with 12 sacks of cement.

NW 1/4 Sec. 14 T. 13 R. 53
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

154

Driller's License Number

Joe Rein Johnson
 Driller's Signature.

44, 149

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.

(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.

302860

Carl Rein

to

The Public

Water Rights

STATE OF MONTANA

County of Dawson

Filed for record this 16th day of

May A D 19 68 at

12:45 o'clock P M.

Barbara R. Russell
County Clerk & Recorder

By _____ Deputy

fee paid \$2.00

File No.

DUPLICATE

T. 13 R. 33
County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECORDED
JAN 14 1964

Notice of Completion of Groundwater Appropriation
Without Well

STATE ENGINEER

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1959

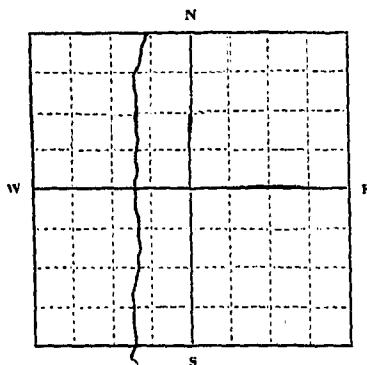
Owner Jacob F. Brecken Address Blondie Mont

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". Exclude depth to water when applicable. Drain Ditch



1/4 Sec. 7 T. 13 R. 33
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 4 month
pumped at times with a
4 in pump also used for
watering stock the year
round

Signature of Owner Jacob F. Brecken
Date 12.31.1963

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.

286875
286875

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of

December A. D. 1963, at
3:30 o'clock P. M.

Gordon H. Russell
County Clerk and Recorder.

By Jaye Smith Deputy.

DEC 29 1961
11:00 A.M.

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. 13 R. 53
County Dawson

RECEIVED
JAN 4 1962

WATER WELL LOG

STATE ENGINEER

Owner David Gaub Address CBR-Clendive, Montana

Driller Ira C. Bond Address Terry, Montana

Date Started March 27, 1960 Date Completed March 28, 1960

Location: Sec. 16 T. 13 R. 53 1/4 sec. NE1 NE2

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

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

Casing: surface ft. to 21' 4" ft. Type steel Size 4"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 30 inches on the bottom ft. to ft.

Type of screen or perforations burned holes

Static Water level, for non-flowing well: water raised to within 8 feet of surface feet.

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

Pumping water level same as above feet at 4 gal. per min.

How tested: drilled

Length of test 2 hours

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

In this type of well the casing is pointed and the perforation put in like a screen. Then the casing is driven to the desired depth with the cable tool rig. This can be done when the water level is known and the formation is gravel.

(over)

[illegible][illegible]

File No.

T. 13 R. 53

DUPLICATE

County Dawson

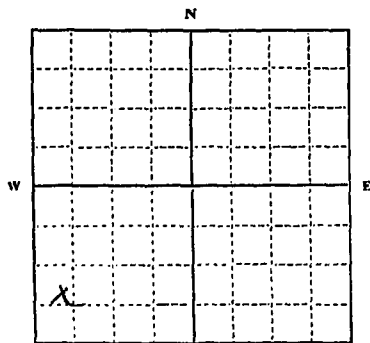
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 14 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Jacob F. Rosler
Jacob F. Rosler of C B Route Glenhurst
(Name of Appropriator) (Address) (Town)
County of Dawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



S-W 1/4 Sec 16 T 13 R 53

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 and
House
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 2-10-1953
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 2 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 Garden used
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well
flaming
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 2-10-1953
8. The depth of water table 720 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 2 in galvanized pipe
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 Dont know
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record none

Signature of Owner

Date 12-31-1963

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.

31982

286876

286876

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of

December A. D. 1963, at
3:30 o'clock P. M.

Gordon H. Russell
County Clerk and Recorder.

By Jaye Schmitt Deputy.

File No.

DUPLICATE

MONTANA WATER RESOURCES BOARD

RECEIVED

LOG

MAY 9 1969

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

County Blaine

Top of Ground

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

0 - 10 Yellow Sandy Soil
 10 - 32 Sand & Gravel
 32 - 40 Brown Gumbo
 40 - 50 Sandstone
 50 - 62 Gumbo

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

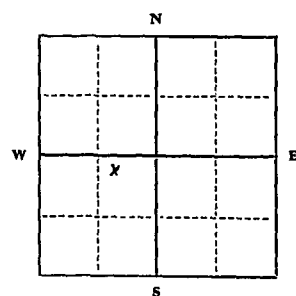
Owner Fred Siegle Address CBR, GlendiveDriller Joe Johnson Drilling Address Terry

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

Date well started 4/28/69 Date completed 4/29/69Type of well Drilled Equipment used Cable Tool
(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)
7"	6 5/8 OD 19#/Ft.	0	62	Holes 3/8"	42	62

Static Water Level for non-flowing well 16 feet.

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

Pumping Water Level 40 feetat 10 gal. per minute.

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

How Tested Bailer TestedLength of Test 2 hrs.Remarks: (Gravel packing, cementing, packers, type of shutoff) Sand Problem

NE 1/4 Sec. 16, T. 13, R. 53
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

154
 Driller's License Number

Driller's Signature.

45,195

306155

STATE OF MONTANA

County of Dawson

Filed for record this 8th day of

May A. D. 19 69 at

1:51 o'clock P M.

Dorinda J. Rasmussen

County Clerk & Recorder

By Patricia J. Rasmussen Deputy

GROUNDWATER INDEX

Page 1 of 1

County Danvers Twp. 1977 Page 546

[illegible]

File No.

T. 13. R. 54

DUPLICATE

County. Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

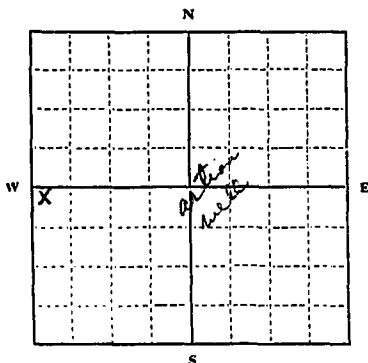
JAN 14 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. John Viola Bushbaum, of C. B. R. Glendrie
(Name of Appropriator) (Address) (Town)
County of Dawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 6 T. 13 R. 54

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 House lawn and cattle

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. April 1943 for cattle

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 2.0 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. none

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

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

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. 6 inch casing 2.0 ft deep

10. The estimated amount of groundwater withdrawn each year. 33,000

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

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

Signature of Owner

John Viola Bushbaum
at Dawson, Montana
Date Dec 19, 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.

32029

286924

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of
December A. D. 1963, at
4:30 o'clock P.M.

Gordon W. Russell
County Clerk and Recorder.

By _____ Deputy.

File No.

DUPLICATE

T. 13 R. 54

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 14 1964

STATE ENGINEER

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

(Under Chapter 237 Montana Session Laws, 1961)

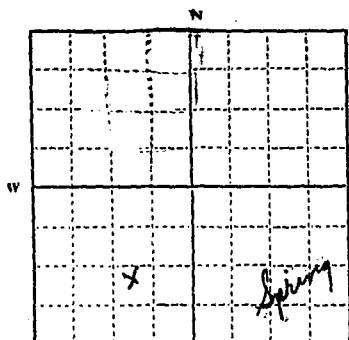
Date of Appropriation of Groundwater 1962Owner John Viola Burkhauser Address Glenview Mont.

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. It's just a steady
flowing spring



$\frac{1}{4}$ Sec. 16 T. 13 R. 54
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. It is
used year around for cattle

Signature of Owner Viola BurkhauserDate Dec. 19, 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.

32028

286923

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of
December A. D. 1963, at
4:30 o'clock P.M.

Gordon W. Russell
County Clerk and Recorder.

By _____ Deputy.

GW 2

File No.

DUPLICATE

RECEIVED
NOV 18 1963
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

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

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
118 feet above sea level.....)

118
13
4
4
28

Sand and Gravel
gumbo

Water sand with seep

Gumbo

gumbo with sand streaks
and water
gumbo

Owner... Fred J. Haidle Address... Fallon, Montana

Driller... Ira C. Bond Address... Terry, Montana

Date of Notice of Appropriation of Groundwater

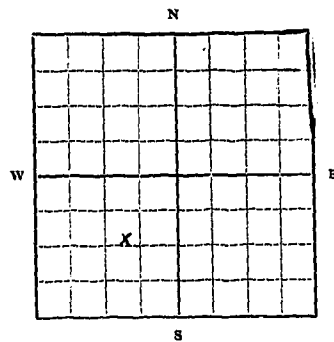
Date well started... 9/9/63 Date Completed... 9/15/63

Type of well..... Equipment Used.....
(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)
8 inch to 120 feet	6 5/8 ID 25 lbs	0	122			
5 & 5/8 " from there to 172	4" ID 12 lbs	118	122	5/16	140	160



37 1/4 Sec. 20 T. 13 R. 50
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

172

Water Level for non-flowing Well... 100 feet.

Shut in Pressure for Flowing Well

Pumping Water Level... 160 feet at 4 gal per minute.

Discharge in gal, per min. of flowing well

How Tested... bailer Length of Test... three hours

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

acres irrigated used for irrigation)

Ira C. Bond

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 this form will be returned.

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

285816

STATE OF MONTANA
County of Dawson

Filed for record this 15th day of
Nov. A. D. 1963, at
10:45 o'clock A.M.

London W. Russell
County Clerk and Recorder.

By Oliver Anthony Deputy.

Fee pd. \$2.00

T. 13 N R. 54 E 22
County Lawson

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

STATE ENGINEER

Owner Mr. Fred J. Thistle Address Fuller Mont.
Driller J. Hansen Address Willow, Mont.
Date Started Aug 20 Date Completed Sept 12
Location: Sec. 22 T. 13 R. 54 $\frac{1}{4}$ sec. SE 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 915 ft. Type Steel Size 2"

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

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

Perforated or Screened: Ft. 860 to ft. 915 Ft. _____ to ft. _____

Type of screen or perforations Holes

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

Shut-in pressure, for flowing well: 42 lbs. lb./sq. in. on Sept 13, 1961
(date)

Pumping water level _____ feet at 32 gal. per min.

How tested: Flow

Length of test Indef.

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

Packer placed 16.5 ft & 4 lbs Cement

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	5	Sand Top Soil
5	18	Sand + Gravel
18	38	Blue. Sand
38	42	light. Blue. Shale
42	44	Coal
44	65	Blue. Shale
65	78	Blue. Sandstone
78	87	Blue. Shale
87	89	Rock
89	185	Gray Shale
185	190	Coal
190	230	Gray shale
230	235	Rock
235	247	Sandstone
247	270	Green. Shale
270	285	Gray Shale
285	315	Sandstone
315	345	Dark. Shale
345	370	light Gray Shale
370	375	Coal
375	440	light gray shale
440	441	Rock
441	487	Gray shale
487	590	Dark Shale
590	591	Rock
591	695	Gray Shale

GROUNDWATER INDEX

Page 1 of 1

County Danison Twp. 1347 Rge. 55E

[illegible]

File No.

T. 13 N R. 55 East

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 14 1964

STATE ENGINEER

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

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1905Owner Krug Ranch Address Glendive, MontanaContractor (if any) Ranch Labor

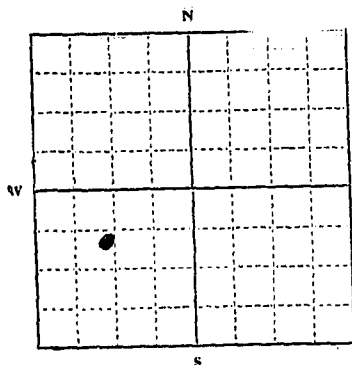
Address of Contractor

Date Started Date Completed 1905

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

four feet deep. Drained into tank two inch
steel pipe

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 Continuousflow for Livestock one eighth of pipeone gal. min.Signature of Owner Krug RanchDate December 30, 1963

Sec. 1/4 T. 13 N R. 55 E

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

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

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

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

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

31835

286718

STATE OF MONTANA
County of Dawson

Filed for record this 30th day of
December A. D. 1963, at
4:00 o'clock P.M.

Gordon H. Russell
County Clerk and Recorder.

By Faye Sabathin Deputy.

File No.

T. 13 R. 55

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 13 1963

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Oct 1946Owner Gottlieb Kaul Address P.O. Box 282 Fallon, MontContractor (if any) none

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.....

It is a natural spring in
the pasture, used to water
the cattle.

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 It is

a natural flowing spring
It is used about 7
months out of a year.

Signature of Owner Gottlieb Kaul

Date.....

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.

285749

STATE OF MONTANA
County of Dawson

Filed for record this 12th day of
Nov. A. D. 1962, at

9:00 o'clock A.M.

Gordon W. Russell
County Clerk and Recorder.

By Alvin Austin Deputy.

Fee pd. \$ 2.00

File No.

T. 13 R. 55

DUPLICATE

County. Hawson

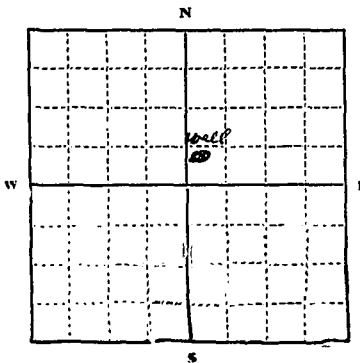
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 13 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Hatchish Paul, of P.O. Box 282 Fallon, Mont
(Name of Appropriator) (Address) (Town)
County of Hawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 7 T. 13 R. 55

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.
water for Live Stock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been.
Oct 1946
used for stock 7 months out
of a year
4. The amount of groundwater claimed (in miner's inches or gallons per minute).
20 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.
none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.
windmill
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
drilled in the summer of 1926
It took about 2 weeks to drill at that time
8. The depth of water table.
46 ft of water from bottom up
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.
A 4 inch drilled well
It is 120 feet deep
10. The estimated amount of groundwater withdrawn each year.
80,000 gallons
11. The log of formations encountered in the drilling of each well if available.
at the time this well was drilled they
did not report the ground formations
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: L. H. Hatchish

Date: Dec 4 '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.

285748

STATE OF MONTANA
County of Dawson

Filed for record this 12th day of
Nov. A. D. 1962, at

9:00 o'clock A.M.

Gordon W. Russell
County Clerk and Recorder.

By Alvin Austby Deputy.

Impd. 200

File No.

T. 13 R. 55

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

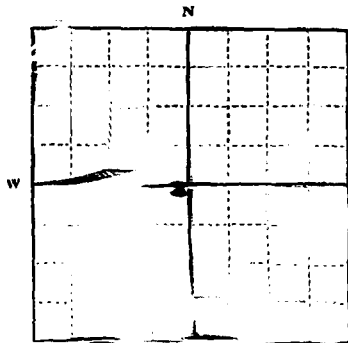
RECEIVED
DEC 23 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Elisabeth Roedel, of WES E. Borden Glendive
(Name of Appropriator) (Address) (Town)
County of Dawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to May 1, 1962, as follows:



NE 1/4 Sec 8 T. 13 R. 55

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

2. The beneficiary of which the claim is based WES E. Borden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1912 Continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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
No

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

7. The date of commencement and completion of the construction of the well, well, or other works for withdrawal of groundwater 1912

8. The depth of water table 10 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Depth 12 feet four feet square

10. The estimated amount of groundwater withdrawn each year 50,000

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

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

Signature of Owner Elisabeth Roedel

Date December 19, 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.

11278

280375

STATE OF MONTANA
County of Dawson

Filed for record this 19th day of
December A. D. 1963, at
1:30 o'clock P.M.

Gordon O. Russell
County Clerk and Recorder.

By Faye Scheith Deputy.

See Rd. # 2.05