3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

94305
RECEIVED
DEC 14 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County PRAIRIE 9

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.

Coal Well

Owner Bureau of Land Management

Address Miles City, Montana

Date well started 10/11/72

completed 10/14/72

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

Equipment used Air Rotary (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock X ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

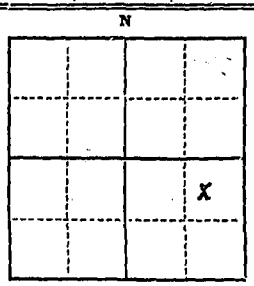
*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

For Administrator's Use
File 94305
Dec. 12, 1972 9:35 a.m.
GW 1

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	6" OD 18.97#	+1	216	Slots 1/8 XX 6"	90 165	100 205



NE ¼ SE ¼ Sec 9
T. 13N N/S R. 48E E/W

Static water level 103 ft.*
Pumping water level 140 ft.*
at 10 gallons per minute,
measured 720 minutes after pumping began.
*Measured from ground level.
Well developed by Air
for 4 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) Gravel packed top to bottom as per specs.

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

Driller's Signature Joe Leon Johnson

Driller's Address Joe Johnson Drilling, Terry, Montana

LICENSE NO. 154

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	10	Topsoil & Brown Sand
10	30	Red & Brown Sand
30	35	Brown Clay
35	45	Red Sand
45	55	Gray Sandy Clay
55	65	Gray Clay
65	70	Sandstone
70	71	Gray Rock
71	80	Gray Clay & Stringer of Coal
80	90	Gray Sand (-7 gpm)
90	100	Sandy Clay with Stringer of Coal
100	110	Gray Clay
110	120	Gray Sandstone
120	145	Clay & Stringers of Coal
145	205	Gray Sandstone
205	216	Clay

216 Show exact depth of bottom

52,019

94305

Water Well Log
Bureau of Land Management
to
The Public

FILED
at 9:35 o'clock A.M.
[illegible] 1972
John D. Strahl
County Clerk
[illegible]
Deputy

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—45642

STATE WATER CONSERVATION BOARD

JUN 29 1967

File No.....

T. 13 N. R. 48 E. 26

DUPLICATE

County Prairie

Bills ..... McDermott ..... STATE OF MONTANA
Butcher ..... McNulty
Coyle ..... Morison ..... ADMINISTRATOR OF GROUNDWATER CODE
Darlinton ..... Sullivan ..... OFFICE OF STATE ENGINEER
Dickert

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

LOG

Top of Ground

(Elev. above sea level 2780)

0-10 Sandy shale, Yellow
10-35 Sand, Yellow
35-60 Shale, Gray Static water level
60-75 Shale, Gray
75-80 Sandy shale, Gray
80-110 Sandstone, Gray
110-125 Sand, Brown
125-130 Sandy shale, Brown
130-137 Sandstone, Gray

Show exact depth of bottom.

Owner Bureau of Land Management Address Miles City, Montana

Driller Joe Johnson Drilling Address Terry, Montana

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

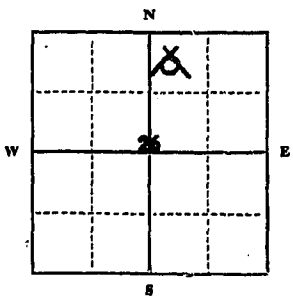
Date well started 5/25/67 Date completed 5/26/67

Type of well Drilled (Dug, driven, bored or drilled) Equipment used Cable tool (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)
8"	6" I.D. 19.18 lb/ft	+1	137	Slots ¼" x 6"	83 125	104 137



NW 1/4 NE Sec. 26 T. 13N R. 48E

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

Static Water Level for non-flowing well 51 feet.

Shut-in Pressure for Flowing Well N/A

Pumping Water Level 89 feet at 12 gal. per minute.

Discharge in gal. per min. of flowing well N/A

How Tested Bailing

Length of Test 5 hours

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

(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).

N/A

Walt Reukauf Well (M2-R-1853)

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.

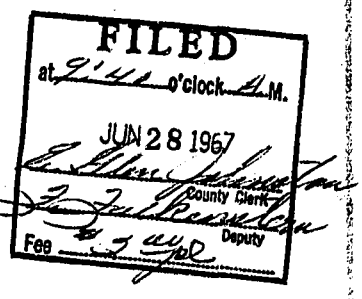
Please answer all questions. If not applicable, so state, otherwise the form will be returned.

754
Driller's License Number

Joe Jon Johnson
Driller's Signature

42,099

88987



3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

94306

RECEIVED

DEC 14 1972

DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Prairie 28

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.

Pole Bell

Owner Bureau of Land Management

Address Miles City, Montana

For Administrator's Use
File 94306
Dec. 12, 1972 9:35 am
GW 1

Date well started 10/14/72

completed 10/16/72

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

Equipment used Air Rotary (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

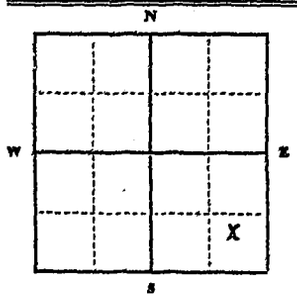
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	6" SD 18.97#	+1	248	slots 1/8 x 6"	200	240



SE ¼ SE ¼ Sec. 28
T. 13S N/S R. 48E E/W

Static water level 140 ft.*
Pumping water level 195 ft.*
at 7 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by Air
for 4 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)
Gravel packed

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

Driller's Signature Joe L. Johnson

Driller's Address Joe Johnson Drilling, Terry, Montana

LICENSE NO. 154

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	10	Red Rock
10	20	Clay with stringers of Coal
20	40	Gray Clay
40	50	Gray shale with stringers of rock
50	60	Blue Clay
60	70	Gray clay and stringers of brown clay.
70	80	Gray clay & stringers of coal
80	90	Gray clay and stringers of rock
90	120	Gray sandstone
120	160	Gray clay
160	180	Black gumbo
180	240	Gray sandstone
240	248	Gray clay
		(10 gpm @ 238')

248 Show exact depth of bottom

52,014

94306

Water Well Log

Bureau of Land

Management

to

The Public

FILED

at 9:35 o'clock A.M.

John D. Strobel

Viola M. Zuber

County Clerk

Deputy

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—45642

File No.

T. 13 N. R. 48 E. 29

DUPLICATE

County Prairie

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

0-23 Sandy shale, Yellow
23-43 Sandy shale, Brown
43-55 Shale, Gray
55-73 Sandy shale, Gray
73-89 Sand, Brown
89-95 Sand, Brown
95-110 Coal, Black
110-155 Shale, Gray
155-195 Sandstone, Gray
195-205 Shale, Gray

Static water level

Owner Bureau of Land Management Address Miles City, Montana

Driller Joe Johnson Drilling Address Terry, Montana

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

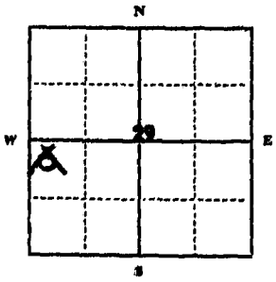
Date well started 5/22/67 Date completed 5/24/67

Type of well Drilled (Dug, driven, bored or drilled) Equipment used Cable tool (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)
8"	6" I.D. 19.18 lb/ft	+1	205	Slots ¼" x 6"	80 180	100 200



NW ¼ SE Sec. 29 T. 13N R. 48E

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

Static Water Level for non-flowing well 89 feet.

Shut-in Pressure for Flowing Well N/A

Pumping Water Level 185 feet at 8.5 gal. per minute.

Discharge in gal. per min. of flowing well N/A

How Tested Bailing

Length of Test 2 hours

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

(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).

N/A

Show exact depth of bottom.

Ford Well (M2-R-1854)

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

Joe Tom Johnson
Driller's Signature.

42.098

98988

FILED
at 9:40 o'clock A.M.
JUN 28 1967
County Clerk
Deputy
Fee

GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED

DEC 23 1971

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Prairie 32

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. Blackjack Well

Owner Bureau of Land Management

Address Miles City, Montana

Date well started 6/7/71

completed 6/7/71

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

Equipment used Air Rotary (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

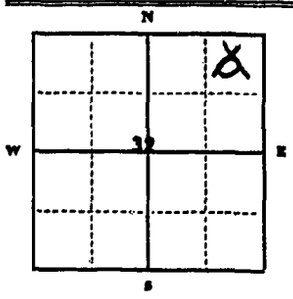
*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

For Administrator's Use
File 93446
December 22, 1971
9:15 AM
GW 1

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
5 5/8"	4" ID 11#	285	415	Slots 1/8 X 6"	365	395



NE ¼ NE ¼ Sec. 32
T. 13N N/S R. 48E E/W

Static water level Same ft.*
Pumping water level 385 ft.*
at 10 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Air
for 0 hours.
Power..... Pump..... HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) 4" Casing is swedged up to 5" ID at 285'

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

Driller's Signature Joe Z. Johnson

Driller's Address Joe Johnson Drlg., Terry, Montana

LICENSE NO. 154

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
300	310	Gray Clay
310	345	Gray Clay
345	355	Gray Sandstone
355	365	Gray Clay
365	385	Gray Sand
385	395	Brown Sand
395	415	Brown Shale

415' Show exact depth of bottom

49629

93446

Water Well Log

Bureau of Land Management

to

The Public

FILED

9:15 o'clock PM

DEC 22 1971

John D. Stockel

County Clerk

Ursula M. Stockel

Deputy

2.00 pd

GROUNDWATER INDEX

Page ___ of ___

County PRINCE Twp. 13N Rge. 49E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
2	BUREAU OF LAND MANAGEMENT	GW-2	88953	
8	HINES, DARWIN	GW-2	85698	
18	BUREAU OF LAND MANAGEMENT	GW-4	84282	
18	HINES, LESTER	WATERWELL LOG	79349	
18	HINES, LESTER	WATERWELL LOG	79868	
24	BUREAU OF LAND MANAGEMENT	GW-2	94301	
29	HINES, VERLIN	GW-2	89180	

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—43642

File No. _____ STATE WATER CONSERVATION BOARD

JUN 29 1967

T. 13 N. R. 49 E. 2.

DUPLICATE

County Prairie

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level _____)

0-3 Shale, Lt. Yellow
3-20 Sandy shale, Lt. Brown
20-30 Sandy shale, Yellow
30-35 Sandy shale, Gray
35-45 Shale, Yellow
45-80 Rock
80-90 Shale, Gray
90-100 Sand, Gray
100-110 Shale, Blue
110-135 Sandy shale, Gray
135-140 Sand, Gray
140-149 Sandy shale, Lt. Brown

static water level

Show exact depth of bottom.

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Bureau of Land Management Address Miles City, Montana

Driller Joe Johnson Drilling Address Terry, Montana

Date of Notice of appropriation of groundwater _____

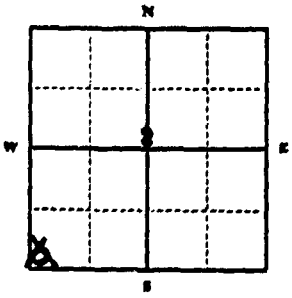
Date well started 4/3/67 Date completed 4/7/67

Type of well Drilled (Dug, driven, bored or drilled) Equipment used Cable tool (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)
8"	6" I.D. 19.18 lb/ft	+2	149	Slots ½" x 6"	120	140



SW 1/4 SW Sec. 2 T. 13N R. 49E

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

Static Water Level for non-flowing well 93 feet.

Shut-in Pressure for Flowing Well N/A

Pumping Water Level 115 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well N/A

How Tested Bailing

Length of Test 2 hours

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

Completed in Fakesen

(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).

N/A

Kaltner No. 2 Well (M2-R-1856)

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

Joe Jim Johnson
Driller's Signature

42,095

R-110

88983

FILED
at 9:40 o'clock A.M.
JUN 28 1967
County Clerk
Deputy
Fee $5.00

GW 2

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

File No.....

T. 13N R. 49E

DUPLICATE

County PRAIRIE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 24 1964

STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

0-18 ft Clay
18-23 gravel
23-60 sand
60-300 gumbo
300-335 sand
335-340 gumbo

Owner Darwin Hines Address Terry

Driller George F. Askin Address Miles City, Mont.

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

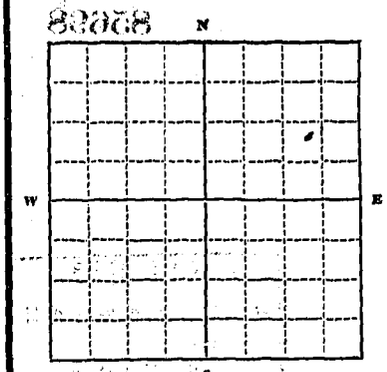
Date well started 7/14/63 Date Completed 7/28/63

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
10"	8"	0	15			
6"	4" Black Standard	15	340	4"	277	340



N ¼ E Sec. 8 T 13N R. 49E

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

Show exact depth of bottom 340 ft.

Static Water Level for non-flowing Well 262 feet.

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

Pumping Water Level 210 feet at 4 gal. per minute.

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

How Tested Bailer Length of Test 12 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)

Cemented with 15 sacks cement from top of sand to surface

50
Driller's License Number

George F. Askin
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.

33802

85698

FILED
at 10:22 o'clock A.M.
JAN 23 1964
County Clerk
Deputy
Fee $2.00

Helena Independent Record

File No.....

DUPLICATE

T. 13 N. R. 49 E.

County Prairie

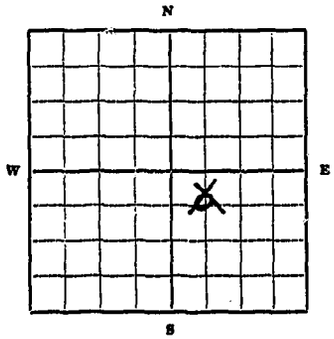
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Bureau of Land Management, of Box 960, Miles City
(Name of Appropriator) (Address) (Town)
County of Custer State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW¼ SE Sec. 18 T13N R. 48E

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 1948 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 gal/min.

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Windmill - NW¼SE¼ of Sec. 18

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

8. The depth of water table Unknown

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

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
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

District Manager
~~Registered Engineer~~ Arthur A. Zimmerman

Date 1-22-63

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.

3660

84282

FILED
at 4:10 o'clock P. M.
FEB 15 1963
County Clerk
Fee 2.00
Deputy

19349

RECEIVED
OCT 9 1959
STATE ENGINEER

18

T..... R.....

County Prairie

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

			0

Owner Lesters Hines Address Terry, Montana

Driller Ira C. Bond Address Terry, Montana

Date Started May 17 to Date Completed May 22, 1958

Location: Sec. 18 T. 13 R. 49 ¼ sec. se¼ of SE¼

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: surface ft. to 104 ft. Type steel Size 4"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 18 to ft. 24 Ft. 73 to ft. 80

Type of screen or perforations burned holes 5/16"

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

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

Pumping water level 5 feet at gal. per min.

How tested:

Length of test

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
gravel packed from top to bottom

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	21	gumbo
21	20	yellow clay
20	23	sand little water 1 gal. per min
23	32	yellow clay
32	74	gumbo
74	75	rock
75	78	water sand 4 gal per minute
78	104	gumbo

79868

RECEIVED
MAY 11 1959
STATE ENGINEER

T. 13 R. 49 18

County Prairie

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Lester Hines Address: Terry, Montana

Driller: Ira, C. Bond Address: Terry Montana

Date Started: May 17, 1958 Date Completed: May 22, 7

Location: Sec. 18 T. 13 R. 49 ¼ sec. SE4 of the SE4

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: 0 ft. to 104 ft. Type steel Size 4 inch

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 73 to ft. 80 Ft. 18 to ft. 24

Type of screen or perforations 5/16 holes cut 3 in. apart with cutting torch

Static Water level, for non-flowing well: At 70 feet.

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

Pumping water level 90 ft. feet at 4 gal. per min.

How tested: bailed

Length of test one hour

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

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled	
0	2	Gumbo	
2	20	Yellow clay	
20	23	Sand	1 gpm
23	32	Yellow clay	
32	74	Gumbo	
74	75	Rock	
75	78	Water sand	4 gpm
78	104	Gumbo	

GW 2 Revised 1969
STATE PUBLISHING COMPANY

94301
RECEIVED
DEC 14 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Beaverhead 24

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.

Stock Well

Owner Bureau of Land Management

Address Miles City, Montana

Date well started 11/8/72

completed 11/8/72

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

Equipment used Air rotary (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

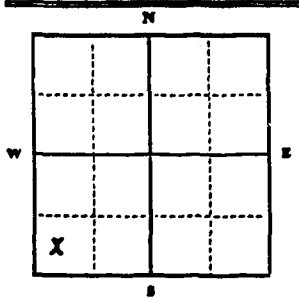
*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

For Administrator's Use
File 94301
Dec. 12, 1972 9:35 a.m.
GW 1

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	6" PD 18.97#	+1	110	slots 1/8" x 6"	80	100



SW ¼ SW ¼ Sec. 26
T. 13N N/S R. 49E E/W

Static water level 63 ft.*
Pumping water level 95 ft.*
at 15 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by air
for 4 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)
Well is gravel packed.

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

Driller's Signature Joe Zen Johnson

Driller's Address Joe Johnson Drilling, Terry, Montana

LICENSE NO. 154

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	10	Topsoil and brown sand
10	20	Brown sand
20	35	Gray clay
35	65	Yellow sandstone
65	75	Gray sand
75	110	Blue-gray sandstone

110 Show exact depth of bottom

52,015

94301

Water Well Log
Bureau of Land
Management
to
The Public

FILED

at 9:30 o'clock A.M.

1 1972

John D. Strickland
Ursula M. Stanford
Deputy

GW 2

MONTANA WATER RESOURCES BOARD Approved Stock Form—State Publishing Co., Helena, Montana—4193.

File No.....

RECEIVED

OCT 2 1967

T. 13 R. 49 29

DUPLICATE

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

0-3 Topsoil
3-20 yellow sand
20-30 gray shale
30-40 quicksand
40-48 Coal
48-100 gray shale
100-102 sandy rock
102-145 gray shale
145-147 sandy rock
147-160 gray shale
160-161 sandy rock
161-190 gray shale
190-200 Coal
200-205 dry. shale
205-230 Sand & Shale
230-242 Sand
242-245 Shale

Owner Verlin Hines Address Terry, Mont.

Driller Joe Johnson Drlg. Address Terry, Mont.

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

Date well started 7/18/67 Date Completed 9/18/67

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	Perforations: Kind Size	Perforations: From (Feet)	Perforations: To (Feet)
8"	4" 10 11# PVC	0'	245'	Slots 4"x6" 4 rows	60' 195'	80' 245'

Static Water Level for non-flowing Well 45 feet.

Shut-in Pressure for Flowing Well ☒.

Pumping Water Level 200 feet at 4½ gal. per minute.

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

How Tested Pumped Length of Test 10 hr.

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

Drained hole top to bottom.

N
W E
S

.....¼..... Sec. 29 T. 13 R. 49

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

Show exact depth of bottom.

154
Driller's License Number

Joe Jon 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.

42,355

89180

FILED
at 3:15 o'clock P.M.
SEP 29 1967
County Clerk
Deputy
Fee

GROUNDWATER INDEX

Page ___ of ___

County PRAIRIE Twp. 13N Rge. 50E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
4	BUREAU OF LAND MANAGEMENT	GW-2	92359	
7	WARNER, MAY	GW-2	92902	
9	NEFSY, WILLIAM	GW-2	88465	
10	WARNER, KATHERINE	GW-4	85576	
10	WARNER, KATHERINE	GW-4	85573	
10	WARNER, KATHERINE	WATER WELL LOG	81425	
26	JOHNSON, WILLIAM H.	WATER WELL LOG	81999	

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—48557

File No.....

RECEIVED

SEP 14 1970

T. 13N R. 50E 4

DUPLICATE

County PRAIRIE

SNOWY

LOG

Top of Ground

(Elev. above sea level 2535)

0 - 20 Lt. Brn Sand
20 - 30 Sand & Gravel
30 - 40 Fine Sand
40 - 50 Gumbo
50 - 70 Sandy Gray Clay
70 - 80 Sand
80 - 100 Sandy Clay
100 - 110 Dk. Brn. Gumbo
110 - 150 Sandy Clay
150 - 174 Fine Gray Sand

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 U.S. ~~BLM~~ Address Miles City

Driller Joe Johnson Drilling Address Terry

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

Date well started 6/4/70 Date completed 6/5/70

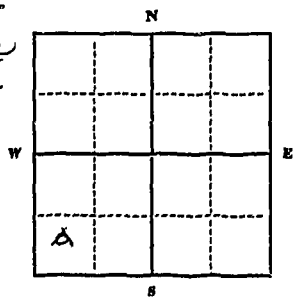
Type of well Drilled (Dug, driven, bored or drilled) Equipment used Air Rotary (Churn drill, rotary or other)

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)
7¼"	6" ID 18.97#	+1	174	holes 3/8"	66 147	102 167

Doc. No. 92359
Filed for record this 11 day of September A.D. 19 70, at 12:00 o'clock P.M.



SW ¼ Sec. 4 T. 13N R. 50E

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

Static Water Level for non-flowing well 75 feet.

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

Pumping Water Level 85 feet at 12 gal. per minute.

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

How Tested Bailer Tested

Length of Test 2 hrs.

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

(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

Joe Jon Johnson
Driller's Signature.

47502

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—48557

File No.....

RECEIVED

SEP 14 1970

T. 13N R. 50E 4

DUPLICATE

County PRAIRIE

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)

SNOWY

LOG

Top of Ground

(Elev. above sea level 2530)

0 - 20 Lt. Brn Sand
20 - 30 Sand & Gravel
30 - 40 Fine Sand
40 - 50 Gumbo
50 - 70 Sandy Gray Clay
70 - 80 Sand
80 - 100 Sandy Clay
100 - 110 Dk. Brn. Gumbo
110 - 150 Sandy Clay
150 - 174 Fine Gray Sand

Owner U.S. BLM Address Miles City

Driller Joe Johnson Drilling Address Terry

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

Date well started 6/4/70 Date completed 6/5/70

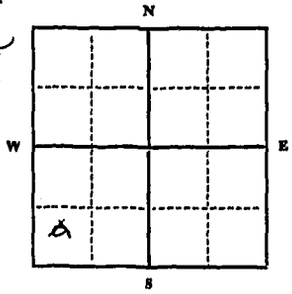
Type of well Drilled (Dug, driven, bored or drilled) Equipment used Air Rotary (Churn drill, rotary or other)

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)
7¼"	6" ID 18.97#	+1	174	holes 3/8"	60 147	102 167

Doc. No. 72359
Filed for record this 11 day of September A.D. 19 70, at 12:00 o'clock P.M.



SW ¼ SW ¼ Sec. 4 T. 13N R. 50E

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

Static Water Level for non-flowing well 75 feet.

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

Pumping Water Level 85 feet at 12 gal. per minute.

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

How Tested Bailer Tested

Length of Test 2 hrs.

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

(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

Joe Jon Johnson
Driller's Signature.

47802

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

MONTANA WATER RESOURCES BOARD
RECEIVED
APR 22 1971

County Prairie 7

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 May Wagner

Address Terry Montana

Date well started 4/6/71

completed 4/16/71

For Administrator's Use
File 92902 April 21, 1971 1:35 P.M.
GW 1

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

Equipment used Cable Tool
(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

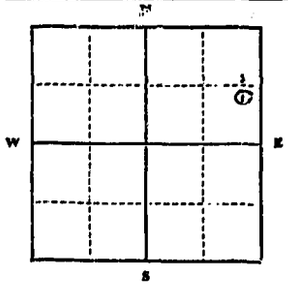
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
7"	4" White Plastic	0'	148'	Drilled 3/16"	112'	140'



SE ¼ NE ¼ Sec. 7
T. 13 N/S R. 50 E/W

Static water level 105 ft.*
Pumping water level 108 ft.*
at 8 gallons per minute,
measured 5 minutes after pumping began.
*Measured from ground level.
Well developed by Bailing
for 4 hours.
Power Wind Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) Gravel Packed

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

Driller's Signature Ira C Bond and Sons

Driller's Address Terry Montana

LICENSE NO. 37

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	1	Top soil
1	20	Yellow clay
20	22	Gumbo
22	34	Sandstone
34	66	Gumbo
66	92	Sandstone
92	112	Gumbo
112	132	Watersand
132	140	Coal
140	148	Gumbo

148 Show exact depth of bottom

48387

92902

Water Well Log

May Farmer

to

The Public

FILED

at 1:35 o'clock P.M.

APR 21 1971

John O. Gladd

County Clerk

Helen Gaddy

Deputy

Fee $

GW

Approved Stock Form—State Publishing Co., Helena, Montana—4047.

File No. .....

T 13 R 50 9

DUPLICATE

County Prairie

NOV 16 1966

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

1	black sandy loam
23	sandy clay and some gravel
12	gumbo
2	sand with 1 gal per min.
42	bentonite
4	water sand 1 gal. min.
13	bentonite
7	brown shale
18	blue gumbo
14	water sand 10 gal

136'

Show exact depth of bottom.

Owner William Nofziger Address Miles City

Driller Dr. C. Bond Address Terry, Montana

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

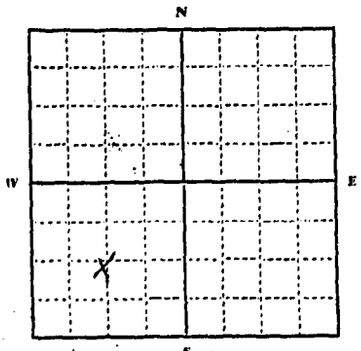
Date well started 9/22/66 Date Completed 9/24/66

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
5 5/8	4½" OD	surface	136'	1/8" Slits	122	136



S.W. ¼ Sec. 9 T. 13 R. 50

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

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

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

Pumping Water Level 100' feet at 10 gal. per minute.

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

How Tested Bailer Length of Test 2 hours

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

37

Driller's License Number

Ira C. Bond

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.

41,609

Prairie

88465

FILED
at 7:55 o'clock A.M.
NOV 15 1966
County Clerk
Deputy
Fee 2.00 id.

GV.

Approved Stock Form—Sta. ublishing Co., Helena, Montana—4725

File No.

T. 13 N R. 50

DUPLICATE

County Phillips

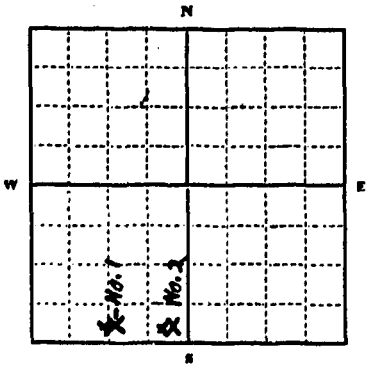
RECEIVED JAN 6 1964 STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

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



SW¼ Sec. 10 T. 13 R. 50

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

2. The beneficial use on which the claim is based
No. 1 Stock watering
No. 2 "

3. Date or approximate date of earliest beneficial use; and how continued
No. 1 the use has been 1941 - continuous
No. 2 " 1951 - "

4. The amount of groundwater obtained (in cubic inches or gallons per minute)
No. 1 5 gallons minute
No. 2 "

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
No. 1 -
No. 2 - "

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
No. 1 - 1941
No. 2 - "

8. The depth of water table
No. 1 - 35 feet
No. 2 - 40 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
No. 1 - Casing - 69 feet
No. 2 - " - Casing - 100 feet

10. The estimated amount of groundwater withdrawn each year
No. 1 - 36,570 gallons
No. 2 - 109,500 "

11. The log of formations encountered in the drilling of each well if available
No. 1 - "
No. 2 - "

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 Katherine Warner

Date Dec. 31 1963

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

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

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

24917

85576

FILED
at 2:30 o'clock P M.
DEC 31 1963
County Clerk
Deputy
Fee 1.00 pd.

GW

Approved Stock Form—State Publishing Co., Helena, Montana—6234

File No.

T. 13N R. 50 10

DUPLICATE

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

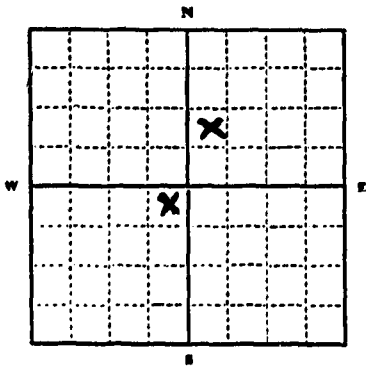
RECEIVED
JAN 6 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Katherine Warner, of Terry.
(Name of Appropriator) (Address) (Town)

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



¼ Sec. 10 T. 13 R. 50

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

2. The beneficial use on which the claim is based
Stock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
1910 – Continuous

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

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

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

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

8. The depth of water table Not known

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
Self flowing springs

10. The estimated amount of groundwater withdrawn each year 2 springs – 2,628,000 gallons

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

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 Katherine Warner

Date Dec. 31-1963

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

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

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

24914

85573

FILED
at 2:30 o'clock P.M.
DEC 3 1 1963
E. Glen Lakeston
County Clerk
J. F. Gilmartin
Deputy
Fee 2.00 pd.

81425

10

T. 13 R. 50

County Prairie

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
NOV 9 1960
STATE ENGINEER

WATER WELL LOG

Owner Mrs. Katherine Warner Address Terry, Montana

Driller Ira G. Bond Address Terry, Montana

Date Started November 20, 1958 Date Completed Nov. 24

Location: Sec. 10 T. 13 R. 50 ¼ sec. SW 4

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: 0 ft. to 104 ft. Type Steel Size 4 inch

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 3x 12 to ft. 16 Ft. 98 to ft. 102

Type of screen or perforations 3/16 in holes cut two inches apart with torch

Static Water level, for non-flowing well: 12 feet.

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

Pumping water level 190 feet at 4 gal. per min.

How tested: With Bailer

Length of test one hour

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

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	12	Sandy Clay
12	16	Sand and Gravel 3 gpm
16	20	Gumbo
20	98	Chalky clay
98	102	Water sand 2 gpm
102	104	chalky clay

81999

26

T.....R.....

County Prairie

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
APR 5 1961
STATE ENGINEER

WATER WELL LOG

Owner William H. Johnson Address Terry, Mont.

Driller Henry L. Johnson Address Terry, Mont

Date Started Apr. 8, 1960 Date Completed Apr. 19, 1960

Location: Sec. 26 T. 13 R. 50 ¼ sec. NE¼ NW¼

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

Water use: Domestic [ ] Municipal [ ] Stock [X] Irrigation [ ]

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 112 ft. Type Std. Pipe Size 6"

Casing: ft. to ft. Type Size

Casing: XXX ft. to XXXX ft. Type XX Size XX

Perforated or Screened: Ft. 85 to ft. 112 Ft. 10 to ft. 12

Type of screen or perforations Holes

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

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

Pumping water level 40 feet at 8 gal. per min.

How tested: Bailer

Length of test 4 Hrs.

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

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	2	Top Soil
2	10	Gravel
10	90	Shale w/ intermittent coal seams
90	110	Sandy shale w/ some water
110	112	Shale

GROUNDWATER INDEX

Page ___ of ___

County PRAIRIE Twp. 13N Rge. 51E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
7	BUREAU OF LAND MANAGEMENT	GW-2	43441	
8	UNDEM, NELS	WATERWELL LOG	80986	
8	UNDEM, NELS	WATER WELL LOG	81423	
9	DOLATTA, CLIFF	GW-2	89157	
22	KNUTHS CATTLE CO.	GW-4	83011	
30	BUREAU OF LAND MANAGEMENT	GW-2	92352	
34	KNUTHS CATTLE CO.	WATER WELL LOG	80216	
11	B.L.M.	GW-2	94848	COTTON WELL

GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED

DEC 2 1 1971

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County PRAIRIE 7

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 SPADE WELL

(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 Bureau of Land Management

Address Miles City, Mont.

Date well started 7/7/70

completed 7/9/70

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

Equipment used Air Rotary (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

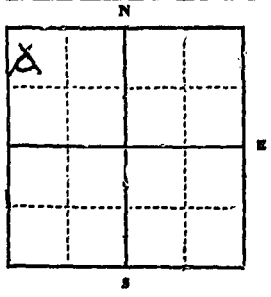
*Describe Dry Hole 1 gpm @ 100'

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

For Administrator's Use	
File	93441
	December 22, 1971 9:15 AM
GW 1	

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
7 7/8"	6" ID 18.97	+1	19			



NW ¼ NW ¼ Sec. 7
T. 13N N/S R. 51E E/W

Static water level ft.*
Pumping water level ft.*
at gallons per minute,
measured minutes after pumping began.
*Measured from ground level.
Well developed by
for hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Driller's Signature Joe L. Johnson

Driller's Address Joe Johnson Drlg. Terry, Mont.

LICENSE NO. 154

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	10	Dk.Brn. Gumbo w/ stringer of Coal
10	50	Brn. Sand
50	70	Blk. Coal
70	95	Gray Clay
95	98	Hard Rock
98	110	Gray Clay
110	120	Gray Clay w/ stringer of Clay
120	163	Gray Clay
163	165	Streak of Sand
165	190	Sandy Gray Clay
190	250	Gray Sand
250	257	Hard Gray Rock
257	290	Sandy Gray Clay
290	330	Gr ay Bentonite Sand
330	350	Gray Sand
350	360	Clay & Sand
360	390	Bentonite Sand
390	412	Brn. Gumbo
412	416	Hard Rock
416	420	Brn Gumbo
420	430	Gray Clay
430	450	Dk. Brn. Gumbo
450	500	Sandy Gray Clay

500' Show exact depth of bottom

(See continuation sheet) Attached

49624

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED

DEC 23 1971

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Prairie

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.

SPADE WELL

Owner B.L.M.

Address Miles City, Mt.

Date well started 6/30/71

completed 7/23/71

For Administrator's Use
File
GW 1

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

Equipment used Rotary
(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6 5/8"	6" ID 18.97#	0	500	N O	N E	
5"	4" ID	500	1400'			

N
W E
S

Static water level 330 ft.*
Pumping water level 426 ft.*
at 10 gallons per minute,
measured 480 minutes after pumping began.
*Measured from ground level.
Well developed by Air
for 16 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

¼ ¼ Sec.
T. N/S R. E/W

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

Driller's Signature Joe L. Johnson

Driller's Address Joe Johnson Drlg., Terry, Montana

LICENSE NO. 154

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
500	510	Gray Clay
510	520	Gray Clay
520	525	Rock
525	530	Gray Clay/ 4" Rock
530	540	Gray Clay 537' String of Coal
540	546	Gray Clay
546	547	Rock
547	550	Gray Clay 549' Rock
550	570	Gray Clay
557	580	Gray Clay/ little sand
580	586	Gray Clay
586	605	Coal
605	640	Gray Clay
640	641	Rock
641	660	Gray Clay 656' Rock
660	670	Gray Clay 667' Rock
670	700	Gray Clay 693' Coal 698' Rock
700	710	Gray Clay 706' Coal
710	723	Gray Clay
723	724	Rock
724	732	Gray Clay
732	738	Gray Sand
738	750	Gray Clay 749' Coal
750	759	Gray Clay
759	767	Gray Sand
767	770	Gray Clay
770	774	Rock
774	784	Gray Clay
784	786	Rock
786	800	Gray Clay 795' Rock
800	808	Gray Clay 804' Rock
808	815	Gray Sand
815	825	Gray Clay 817' Coal
825	845	Gray Clay 840' Coal
845	855	Gray Clay 854' Rock
855	858	Gray Clay
858	859	Rock
859	865	Gray Clay
865	875	Gray Sand
875	885	Gray Clay 1' rock @ 900'
885	910	Gray Clay
910	913	Gray Sand
913	914	Rock
914	928	Gray Sand
928	931	Gray Clay
931	952	Gray Sand 939' a 4" Rock
952	954	Rock
954	965	Gray Sand
965	966	Rock
966	969	Gray Sand
969	970	Rock
970	976	Gray Sand
976	983	Gray Clay
983	1030	Gray Shale
1030	1047	Gray Sand
1047	1058	Gray Shale 1058' Rock
1058	1068	Gray Clay
1068	1098	Gray Sand

—1400'— Show exact depth of bottom

GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED

DEC 23 1971

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Prairie

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 .....

Address .....

.....

Date well started .....

completed .....

For Administrator's Use
File .....
GW 1 .....

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

Equipment used ..... (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

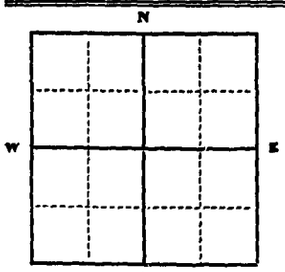
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe .....

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

ESTIMATED ANNUAL WITHDRAWAL .....

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)



.....¼ .....¼ Sec.....

T..... N/S R..... E/W

Static water level .....ft.*
Pumping water level .....ft.*
at .....gallons per minute,
measured .....minutes after pumping began.
*Measured from ground level.
Well developed by .....
for .....hours.
Power..... Pump..... HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) .....

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

Driller's Signature .....

Driller's Address .....

..... LICENSE NO.....

DRILLER'S LOG

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

Spade Well Continued

Top of Ground (Elev. above sea level) _____

From (Feet)	To (Feet)	
1092	1100	Gray Shale
1100	1128	Gr ay Sand
1128	1134	Gray Shale
1134	1138	Gray Sand
1138	1141	Gray Shale
1141	1160	Gray Sand
1160	1162	Rock
1162	1228	Gray Sand
1228	1242	Gray Shale
1242	1270	Gray Sand
1270	1273	Rock
1273	1291	Gray Sand
1291	1303	Gray Shale
1303	1365	Gray Sand
1365	1375	Gray Shale 1368' 2" Rock, 1372' a 1" Rock
1375	1400	Gray Shale

_____ Show exact depth of bottom
1400'

93441

Water Well Log
Bureau of Land
Management
to
The Public

FILED
9:15 o'clock A.M.
DEC 22 1971
John L. Hindel
Viola M. Fisher
9.00 pd.

80986

8

T. 13 R. 51

County Prairie

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
NOV 9 1960
STATE ENGINEER

WATER WELL LOG

Owner Nels Undum Address Terry Montana

Driller Ira C. Bond Address Terry, Montana

Date Started April 10, 1960 Date Completed April 16

Location: Sec. 8 T. 13 R. 51 ¼ sec. NW4

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: 0 ft. to 198 ft. Type Steel Size 4 inch

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 174 to ft. 191 Ft. to ft.

Type of screen or perforations 5/16 in holes cut three in. apart with cutting torch

Static Water level, for non-flowing well: 168 feet.

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

Pumping water level 185 feet at 4 gal. per min.

How tested: With bailer

Length of test one hour

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

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	28	Sandy Yellow Clay
28	34	Hard Coal
34	75	Gumbo
75	77	Hard Rock
77	91	Gumbo
91	95	Coal
95	120	Gumbo
120	130	Clay
130	134	Sandy Clay
134	152	Gumbo
152	156	Sandy Clay
156	175	Sandstone
175	190	Water Sand 8 gpm
190	193	Gumbo

81423

RECEIVED

STATE ENGINEER

T. 31 R. 51

County Prairie

8

MONTANA BUREAU OF MINES AND GEOLOGY

Butte, Montana

WATER WELL LOG

Owner: Nels Undem Address: Terry, Montana

Driller: Ira C. Bond Address: Terry, Montana

Date Started: April 10, 1960 Date Completed: April 16, 1960

Location: Sec. 8 T. 13 R. 51 ¼ sec. NE¼ NW¼

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: surface ft. to 196 ft. Type steel Size 4"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 174 to ft. 191 Ft. to ft.

Type of screen or perforations: burned holes

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

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

Pumping water level 135 ' feet at gal. per min.

How tested: bailed

Length of test: 2 hours

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

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	28	sandy yellow clay
28	34	hard coal
34	75	gumbo
75	77	rock
77	91	gumbo
91	95	coal
95	120	gumbo
120	130	clay
130	134	sandy clay
134	152	gumbo
152	156	sandy clay
156	175	sand stone
175	190	water sand
190	196	gumbo

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4193

9

File No.....

T. 13N R. 51E

DUPLICATE

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

0-15 - Topsoil - Drift Sand & Streak Coal
15-30 Coal & Gravel
30-60 Shale
60-62 Rock (Gray)
62-118 Shale & Coal
118-121 Rock
121-187 Shale & Sandy Shale
187-190 Rock
190-290 Sandstone & Streaks
290-345 Shale & Coal Shale
345-375 Gray Shale
375-405 Shale & Coal
405-420 Shale & rock
420-435 Coal & Shale
435-450 Brn. Shale
450-480 Blu Shale & St. of rock
480-545 Shale & rocks
545-560 Sandstone
560-590 Coal & Sand
600-700 Blu Gray Shale
700-702 Rock
702-800 Shale
800-864 water Sand & Sh. Shale
864-867 Rock
867-960 Shale
960-966 Rock
966-1010 water Sand & Sh. Shale
1010-1100 Hard Shale
1100-1160 water Sand & Sh. of rock

Owner Cliff Dalatta Address Terry, Mont.

Driller Joe Johnson Address Terry, Mont

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

Date well started 8/21/67 Date Completed 8/29/67

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	4 1/2" O.D 11# F/F	0'	339'			
4 1/2"	2" I.D 3.7 # P/F	339'	1181'	Holes 3/8"	1060'	1160'

Static Water Level for non-flowing Well 221 feet.

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

Pumping Water Level 250 feet at 10 gal. per minute.

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

How Tested Air 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).....

W E S

X

SW 1/4 SW Sec. 9 T. 13 R. 51

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

Show exact depth of bottom.

154
Driller's License Number

Jose Lee 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.

RECEIVED
MONTANA WATER RESOURCES BOARD
SEP 20 1967

89157

FILED
at 1:40 o'clock P. M.
SEP 19 1967
Ellen Johnston
County Clerk
L. Zaklinskas
Deputy
Fee 2 cy fee.

GI

File No.....

DUPLICATE

T. 13 N R. 51 E

County Prairie

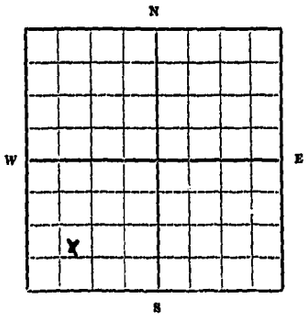
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAR 11 1962
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Knutha Cattle Co, of Terry
(Name of Appropriator) (Address) (Town)
County of Prairie State of Mont.
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW¼ Sec. 22 T. 13 R. 51 E

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1950

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal This well is pumped by windmill and pump jack from a depth of 18 ft

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

8. The depth of water table 850 ft to artesian sand

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 to a depth of 1800 ft and cased with 4" casing

10. The estimated amount of groundwater withdrawn each year 300,000

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

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

Signature of Owner Knutha Cattle Co By Gordon Knutha

Date Jan 22, 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.

1711

83011

FILED
at 2:30 o'clock P.M.
MAR 13 1962
E. Jean Johnston
County Clerk
Fee 3.00 By Deputy

30

Form No. 2 Revised 1969
WHITE PUBLISHING COMPANY

County PRAIRIE

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 STACY

(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 Bureau of Land Management

Address Miles City, Mont.

For Administrator's Use
File 92352
September 11, 1970
12:00 A.M.
GW 1

Date well started 6/8/70

completed 6/11/70

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

Equipment used Air Rotary (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

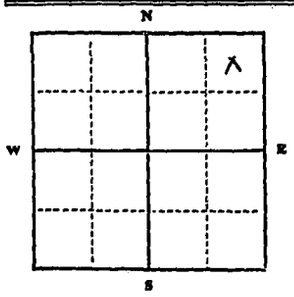
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
7 7/8"	6" ID 18.97	+ 1	337	Holes 7/8	90	130



Static water level 99 ft.*
Pumping water level 126 ft.*
at 4 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by
for hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

NE ¼ NE ¼ Sec. 30
T. 13N N/S R. 51E E/W

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

Driller's Signature Joe T. Johnson

Driller's Address Joe Johnson Drlg. Terry, Mont.

LICENSE NO. 154

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	10	Brn. Gumbo
10	30	Fine Brn. Sand
30	50	Fine Yellow Sand
50	70	Gray Clay
70	80	Blk. Coal
80	120	Fine Gray Sand
120	140	Gray Clay w/ stringers of Coal
140	150	Gray Clay
150	170	Clay & Coal
170	180	Sandy Gray Clay
180	220	Gray Clay
220	240	Brn Gumbo
240	250	Brn. Gumbo w/ stringer of Coal
250	260	Brn. Gumbo
260	270	Blk. Coal
270	280	Sandy Gray Clay w/ stringer of Coal
280	290	Sandy Gray Clay
290	320	Gray Clay
320	325	Dk. Gray Clay
325	330	Hard Rock
330	337	~~[illegible]~~ Clay

337' Show exact depth of bottom

MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962 STACY

(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: Bureau of Land Management

Address: Miles City, Mont.

For Administrator's Use
File 92352
September 11, 1970
12:00 AM
GW 1

Date well started: 6/8/70

completed: 6/11/70

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

Equipment used: Air Rotary (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

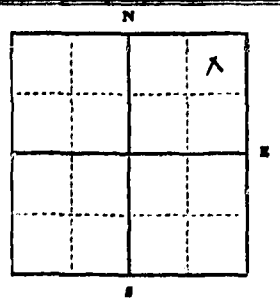
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL 120,000 gal

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
7 7/8"	6" ID 19.97	+ 1	237	Holes 3/8	90	1[illegible]



NW ¼ NW ¼ Sec. 30
T. 13N N/S R. 51E E/W

Static water level 90 ft.*
Pumping water level 120 ft.*
at 4 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by
for hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Driller's Signature: Joe T. Johnson

Driller's Address: Joe Johnson Drlg. Terry, Mont.

LICENSE NO. 154

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	10	Brn. Gumbo
10	30	Fine Brn. Sand
30	50	Fine Yellow Sand
50	70	Gray Clay
70	80	Blk. Coal
80	120	Fine Gray Sand
120	140	Gray Clay w/ stringers of Coal
140	150	Gray Clay
150	170	Clay & Coal
170	180	Sandy Gray Clay
180	220	Gray Clay
220	240	Brn Gumbo
240	250	Brn. Gumbo w/ stringer of Coal
250	260	Brn. Gumbo
260	270	Blk. Coal
270	280	Sandy Gray Clay w/ stringer of Coal
280	290	Sandy Gray Clay
290	320	Gray Clay
320	325	Dk. Gray Clay
325	330	Hard Rock
330	337	[illegible] Clay

337' Show exact depth of bottom

80216

RECEIVED
DEC 16 1959
STATE ENGINEER

34

T. 13 R. 51
County Prairie

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Bunthe Cattle Company Address: Terry, Montana

Driller: Ira C. Bond Address: Terry, Montana

Date Started: November 1, 1959 Date Completed: November 14/59

Location: Sec. 34 T. 13 R. 51 ¼ sec. 1 mi. of the NE

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: 0 ft. to 31 ft. Type: Steel Size: 6 inch

Casing: 0 ft. to 800 ft. Type: Steel Size: 8 inch

Casing: ft. to ft. Type: Size:

Perforated or Screened: Ft. 650 to ft. 710 Ft. 820 to ft. 880

Type of screen or perforations: 1/4 in. holes cut one inch apart with torch

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

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

Pumping water level feet at gal. per min.

How tested: Flows 12 gpm tested with bucket and watch

Length of test: open flow for twenty-four hours tested for one minute

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

four inch ring at 582 feet

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	1	Top soil
1	6	yellow clay
6	7	Rock
7	14	Yellow clay
14	15	Rock
15	24	Gumbo
24	25	Coal
25	26	Gumbo
26	27	coal
27	28	gumbo
28	29	rock
29	40	Gumbo
40	50	coal
50	136	gumbo with coal strips
136	137	Water Sand
137	138	Rock
138	153	gumbo
153	161	Coal
161	166	Gumbo
166	173	Coal
173	177	Hard Rock
177	218	Gumbo
218	219	Rock
219	222	Gumbo
222	223	Rock
223	287	Shale
287	292	Rock
292	434	Shale with Coal Streaks
434	434	Rock
434	650	Shale
650	700	Water Sand
700	703	Shale
703	705	Rock
705	705	water sand
705	850	shale
850	850	
850	880	Water Sand
880	890	Shale

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
MAY 29 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Prairie

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.

Cotton Well

Owner Bureau of Land Management

Address Miles City, Montana

Date well started 3/22/73

completed 3/29/73

For Administrator's Use
File 94848
MAY 24, 1973
GW 1 9:30 a.m.

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

Equipment used Air Rotary (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

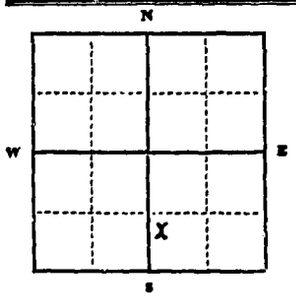
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
7 7/8"	6" SB 18.97#	+1	377	slots 1/8 X 6"	280	300
					350	370



SW ¼ SE ¼ Sec. 11
T. 131 N/S R. 51 E/W

Static water level 165 ft.*
Pumping water level 185 ft.*
at 6 gallons per minute,
measured 20 minutes after pumping began.
*Measured from ground level.
Well developed by Air
for 2 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)
Water had good raise.
Well was bailed for 3 hrs.

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

Driller's Signature Joe L. Johnson

Driller's Address Joe Johnson Drlg., Terry, Montana

LICENSE NO. 154

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	10	Brown topsoil
10	20	Dk. Brown & gray topsoil
20	30	Lt. Brown sandy soil
30	40	Gray sandy soil
40	50	Sand, Gumbo, Coal, Red Sand
50	60	Coal
60	70	Coal & sand
70	80	Coal & sand
80	90	Coal & sand
90	100	Coal & hard sand
100	110	Sand, gray & red
110	120	Coal, Sand & Sandstone
120	130	Gray & Dk. Brn. Sandstone
130	140	Sand, Coal & Sandstone
140	150	Gray Sandstone
150	160	Gray Sandstone
160	170	Gray sand
170	180	Gray Sandstone
180	190	Gray Sandstone
190	200	Sandstone & Coal
200	210	Gray Sandstone
210	220	Gray Sandstone
220	240	Gray Sandstone
240	250	Gray Sand & Sandstone
250	280	Gray Sandstone
280	310	Gray Sand
310	350	Gray Clay
350	360	Coal & Sandstone
360	370	Green Clay
370	380	Clay with stringers of Coal

377 Show exact depth of bottom

53,268

94848

FILED
at 9:20 o'clock A.M.
MAY 24 1973
John D. [illegible]
County Clerk
Deputy