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

33

File No.

T. 4S R. 4E

DUPLICATE

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAY 20 1964
STATE ENGINEER

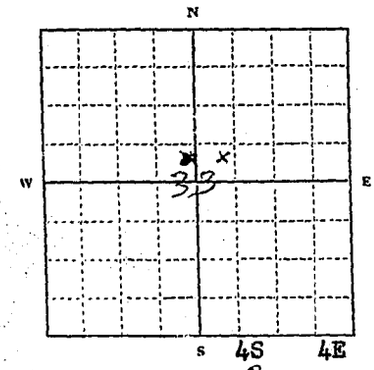
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Conrad Jones Ramona Jones, of Box 79 Gallatin Gateway
(Name of Appropriator) (Address) (Town)

County of Gallatin State of Montana

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



NE ¼ Sec. 33 T. 4S R. 4E

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been July 3, 1962
Continuous

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commenced July 26, 1961
Completed July 3, 1962

8. The depth of water table 55 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Depth 78½ feet — 6" casing

10. The estimated amount of groundwater withdrawn each year

11. The log of formations encountered in the drilling of each well if available Dirt & Boulders — Granite & Mica to 67 feet
Gravel & Sand to 78½ feet

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 Conrad Jones
Ramona Jones
Date May 18 1964

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.

38104

#1850

State of Montana }
County of Gallatin } ss.

Filed May 18, 1964

at 4:40 o'clock P. M.

EARL WALTON
COUNTY CLERK & RECORDER

By [signature]
DEPUTY

Fee $ 2.00 pd

GW 2

File No.....

DUPLICATE

Approved Stock Form—State Publishing Co., Helena, Montana—40472

T. 4S R. 4E 33

County Lake

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 16 1964
STATE ENGINEER

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

1-10 Rock
10-20 gravel & Clay
20-43 Rock
43-46 gravel
46-59 Rock
59-63 gravel & Sand
Water
61' bottom of well

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner HARRY C. WIXOM Address Lakeside Lake County Montana

Driller Harold Hulbert Address Ft. on Bigfork Mont

Date of Notice of Appropriation of Groundwater —

Date well started Oct 1, 1964 Date Completed Oct 12 1964

Type of well Drilled (dug, driven, bored or drilled) Equipment Used Churn (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)
7"	6 5/8" OD 19 lb	0	61'	none		

N
W E
S

.....¼..... Sec. 33 T. 4S R. 4E
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Lot 4, Castle Rock Tracts
Show exact depth of bottom.

Static Water Level for non-flowing Well 52 feet.

Shut-in Pressure for Flowing Well —

Pumping Water Level 52 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well —

How Tested Bailer Length of Test 2 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)

none

47
Driller's License Number

Harold B. Hulbert
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.

38562

#1876

State of Montana } ss.
County of Gallatin }

Filed October 15 1964

at 11:25 o'clock A M

EARL WALTON

COUNTY CLERK & RECORDER

By [illegible]

DEPUTY

Fee $ 2.00 pd

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4232.

File No.....

T 4S R 4E 33

DUPLICATE

County Gallatin

LOG

MONTANA WATER RESOURCES BOARD
RECEIVED
AUG 19 1968

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.....)

0-2 soil rock
2-I5 rock
I5-25 gravel & rock
25-46 rock
46-48 sand
48-55 clay gravel & very little water
55-56 sand gravel
" & very little water
56-57 clay
57- 59 sand & gravel
59-6I gravel _ water
6I Bottom of well

Owner Harry C. Wilson Address Gallatin Gateway Mont

Driller Harold Hulbert Address Route I Bozeman, Mont

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

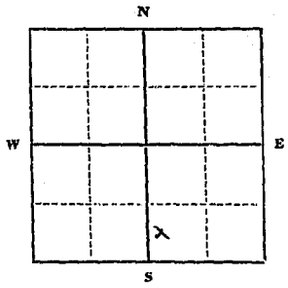
Date well started July 20 I968 Date completed Aug. I5 I968

Type of well Drilled (Dug, Driven, bored or drilled) Equipment used Churn (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 O. D. I9 lb	2 above	6I	none		



Static Water Level for non-flowing well 47 feet.

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

Pumping Water Level 47½ feet at 20 gal. per minute.

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

How Tested Bailer & pump

Length of Test 4 hrs

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

Castle Rock Tracts 4-5

SE¼ Sec. 33 T. 4S R. 4E

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.

47

Driller's License Number

Harold B. Hulbert
Driller's Signature

44,510

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.

75711

2185

State of Montana }
County of Gallatin } SS.

Filed August 16, 1968

at 3:45 o'clock P M.

Carl L. Stucky

County Clerk & Recorder

By Betty Rose Griggs

Deputy

Fee $ 2.00 pd

GW 2

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

34

File No.....

T. 4S R. 4E

DUPLICATE

County GALLATIN

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 28 1962
STATE ENGINEER

Top of Ground
1 ft top soil APPROXIMATELY
(Elev. above sea level 5000)

2-49 Rock
water course very small outflow
49-50 Hard clay
50-65 Rock
65-67 Clay
water course
Raised to 56 ft

BOTTOM 67'

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Jack and Dola Cain Address RT I BOZEMAN MONT

Driller Harold Hulbert Address R.I Bozeman Mont

Date of Notice of Appropriation of Groundwater —

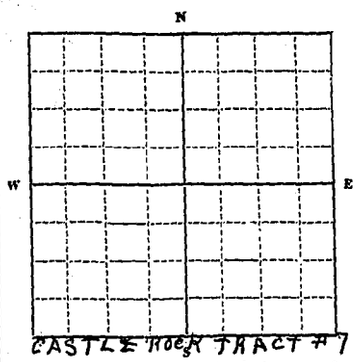
Date well started Oct 29, 1962 Date Completed Dec 18 1962

Type of well Drilled (dug, driven, bored or drilled) Equipment Used Churn (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"	4½ O.D. 8 lb	0	64	—		



CASTLE ROCK TRACT #1
SE ¼ Sec 34 T. 4S R. 4E
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 56' feet.

Shut-in Pressure for Flowing Well —

Pumping Water Level 58 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well —

How Tested Bailer Length of Test 2 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)

None

47
Driller's License Number

Harold B. Hulbert
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.

2901

572

State of Montana
County of Gallatin } ss.

Filed December 27 1962
at 2:17 o'clock P. M.

EARL WALTON CLERK & RECORDER

By L. J. Morrow
DEPUTY

Fee $ 2.00 Pd.

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—41933

STATE WATER CONSERVATION BOARD

File No. ..... T. 1 S. R. 4 E.

JUL 22 1966

DUPLICATE

County Gallatin

Bills ..... McDermott .....
Butzerin ..... McNutt .....
Coyle ..... Morton .....
Darlinton ..... Sullivan .....
Dickert .....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

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

0-2 soil
2-25 rock & gravel
25-32 clay & rock
32-34 rock
34-36 clay
36-38 clay
38- 44 clay & rock
44-45 rock
45-49 rock
49-50 water & sand
40-58 rock
58' Bottom of well

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Harry C. Wixom & Marie E. Wixom Address Gallatin Gateway

Driller Harold Hulbert Address Route I Bozeman

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

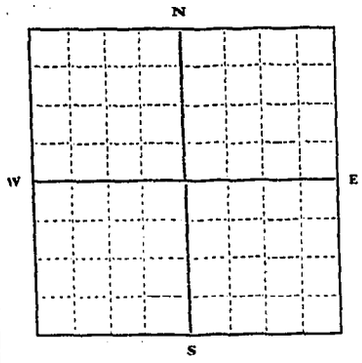
Date well started July 1966 Date Completed July 15 1966

Type of well Drilled (dug, driven, bored or drilled) Equipment Used Churn (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)
7"	6" I. D. 19 lb	I above	40	None		



.....¼..... Sec..... T..... R.....
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Tract 21 of Castle Rock Tracts
Show exact depth of bottom.

Static Water Level for non-flowing Well 47 feet.

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

Pumping Water Level 57 feet at 5 gal. per minute.

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

How Tested Pump Length of Test 2 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).....

47
Driller's License Number

Harold B. Hulbert
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.

41241

2018

State of Montana } ss.
County of Gallatin }
Filed July 18, 1966
at 3:15 o'clock P.M.
Carl L. Stucky
County Clerk & Recorder
By Beverly Hallauer
Deputy
Fee $ 2.00 pd.

GROUNDWATER INDEX

County Gallatin Twp. 4S Rge. 5E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
14	United States of America (Forest Service)	2 N 3	824	

GW 3

Approved Stock Form—State Publishing Co., Helena, Montana—39318

14

File No.....

T. 4 S. R. 5E

DUPLICATE

County Gallatin

RECEIVED
DEC 10 1963
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1930

Owner United States of America (Forest Service) Address Bozeman, Montana

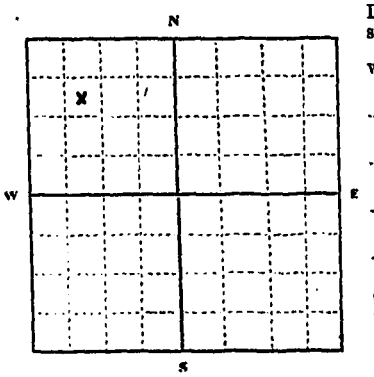
Contractor (if any) N/A

Address of Contractor N/A

Date Started 1930 Date Completed 1930

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

Spring



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

BLACK SPRING - 6 G.P.M. - measured flow, and timed.

Use Period: Grazing season, approximately four months annually.

SE¼NW¼NW¼ ¼ Sec. 14 T. 4S R. 5E

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

BLACK SPRING

UNITED STATES OF AMERICA

Signature of Owner By Robert S. Gibson

Date 12/4/63

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.

8315

#824

State of Montana } ss.
County of Gallatin }

Filed December 9, 1963
at 11:54 o'clock A. M.

EARL WALTON
COUNTY CLERK & RECORDER

By [illegible]
DEPUTY

Fee $ 2.00

GROUNDWATER INDEX

County Gallatin Twp. 4S Rge. 6E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
15	United States of America	GW2	815	
16	United States of America	GW4	825	
	(Forest Service)			
22	United States of America	GW4	824	
	(Forest Service)			

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—3905

File No. HOOD WELL NO. 1 T. 4S R. 6E

DUPLICATE

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED DEC 10 1963 STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: United States of America Forest Service Address: Bozeman, Montana

Driller: Van Dyken Drilling Company Address: Bozeman, Montana

Date of Notice of Appropriation of Groundwater: 10-05-63

Date well started: 9-24-63 Date Completed: 10-05-63

Type of well: Drilled (dug, driven, bored or drilled) Equipment Used: Churn drill. (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.

Top of Ground

(Elev. above sea level 6800 ft.)

2'9" Above ground surface

0'-6' Soils & broken rock.

6'-8' Boulders

8'-13' Dirt & broken rock.

13'-16' Boulders

16'-21' Hard rock.

21'-26' Clays & rock.

26'-28' Sand(Water bailed 6 G.P.M)

28'-35' Hard blue shales.

35'-51' Hard blue shales.

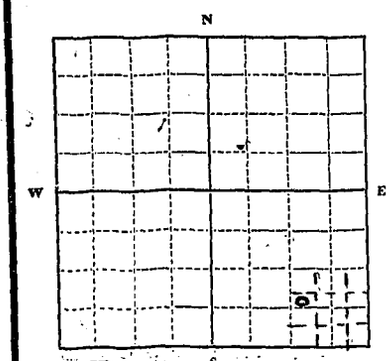
51'-80' Hard basalt.

80'-85' Hard blue shale

85'-92' Sandstone(water)

Total Depth 92'

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" - 19 lb.	2'9" Above ground surface	51'	NONE		



SW NW SE ¼ Sec. 15 T. 4S R. 6E

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

Show exact depth of bottom. 92'

Static Water Level for non-flowing Well 45 feet.

Shut-in Pressure for Flowing Well N/A

Pumping Water Level 51 feet at 35 gal. per minute.

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

How Tested Pumping 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)

License No. 1
Driller's License Number

Bert Van Dyken
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.

8284

#815

State of Montana } ss.
County of Gallatin }

Filed December 9 1963

at 11:45 o'clock A. M.

EARL WALTON

COUNTY CLERK & RECORDER

By [illegible]

DEPUTY

Fee $ 2.00

Approved Stock Form—State Publishing Co., Helena, Montana—40876

File No.....

T. 4S R. 6E

DUPLICATE

County Gallatin

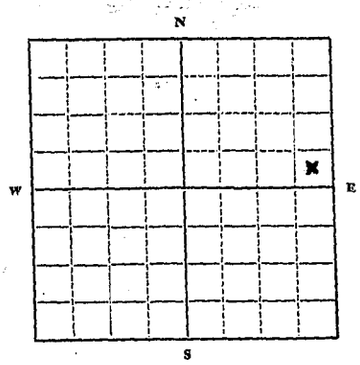
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 10 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. United States of America (Forest Service), of Bozeman
(Name of Appropriator) (Address) (Town)
County of Gallatin State of Bozeman, Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE¼SE¼ Sec. 16 T. 4S R. 6E

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Continuous use 1940 to 1947. Capped off in 1947. Future domestic use intended.

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

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
N/A

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

Well. Hyalite Dam Campsite.

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

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
Unknown

10. The estimated amount of groundwater withdrawn each year Unknown

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

UNITED STATES OF AMERICA
By: Signature of Owner [signature]
Date December 4, 1963

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

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

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

8326

#835

State of Montana }
County of Gallatin } ss.

Filed December 9, 1963

at 12:06 o'clock P. M.

EARL WALTON
COUNTY CLERK & RECORDER

By Lucile A. Maxwell
DEPUTY

Fee $ 2.00

GV

Approved Stock Form—State Publishing Co., Helena, Montana—40876

File No.

DUPLICATE

T. 4S N. 6E

County Gallatin

RECEIVED
DEC 10 1963
STATE ENGINEER

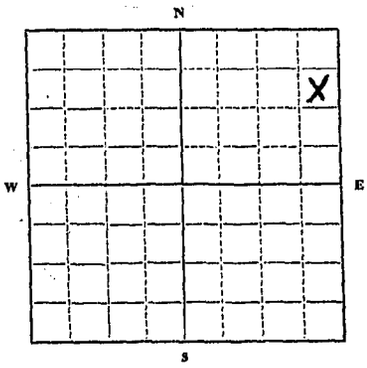
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, United States of America (Forest Service), of Bozeman
(Name of Appropriator) (Address) (Town)

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



SE¼NE¼NE¼ ¼ Sec. 22 T. 4S R. 6E

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

WELL - Hyalite Jr. Camp

2. The beneficial use on which the claim is based: Domestic

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: July 8, 1952

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 83 G. P. M.

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: N/A

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: July 8, 1952

8. The depth of water table: 29 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Drilled. 6" casing. Depth of well - 50½ ft.

10. The estimated amount of groundwater withdrawn each year: 9000 gallons

11. The log of formations encountered in the drilling of each well if available:
0' to 6' Gravel and shale
6' to 50' Red clay and sand
Water level raised 21 feet in casing.

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: N/A

Unknown

UNITED STATES OF AMERICA
By: [signature]
Signature of Owner

Date: December 4, 1963

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

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

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

8325

#834

State of Montana
County of Gallatin } ss.

Filed December 9, 1963
at 12:05 o'clock P. M.

EARL WALTON
COUNTY CLERK & RECORDER

By Lucille A. Mafnell
DEPUTY

Fee $ 2.00

GROUNDWATER INDEX

County Gallatin Twp. 5 S Rge. 4 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
2	United States of America	2W4	724	
25	Hardie F. R.	2W3	1004	

GW

Approved Stock Form—State Publishing Co., Helena, Montana—38687

File No. ..... Garnet Mt. Lookout Spring T. 5S R. 4E

DUPLICATE

County Gallatin

SW

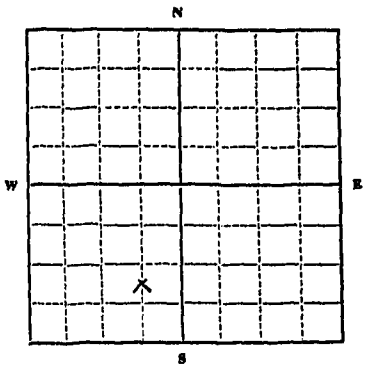
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED OCT 3 1963 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. United States of America (Name of Appropriator) of Gallatin Gateway (Address) (Town)
County of Gallatin State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE ¼ SW Sec. 2 T. 5S R. 4E

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 stockwater and domestic use for fire lookout.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1962

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal concrete spring box SESWX Section 2, T5S, R4E

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1962

8. The depth of water table shallow

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 concrete spring box approximately 3' x 4' pipe and trough.

10. The estimated amount of groundwater withdrawn each year 400,000 gallons

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

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 unknown

Signature of Owner United States of America by: Jean E. Bee

Date October 2, 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.

6162

#724

State of Montana
County of Gallatin } ss.

Filed October 2, 1963

at 11:28 o'clock A M.

EARL WALTON
COUNTY CLERK & RECORDER

By [signature]
DEPUTY

Fee $ 2.00

GW 3

Approved Stock Form—State Publishing Co., Helena, Montana—42199

25

File No.....

DUPLICATE

T. 5 S. R. 4E

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 26 1963
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Hardie,
T. (?) R. (?)
or ?

Date of Appropriation of Groundwater December 23, 1963

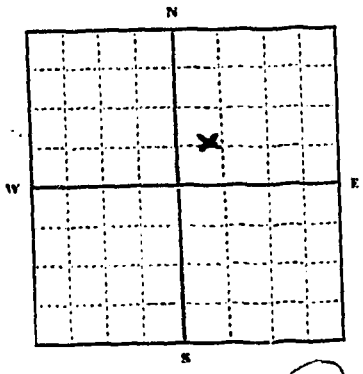
Owner [illegible] Address.....

Contractor (if any) .....

Address of Contractor .....

Date Started..... Date Completed.....

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



SE, NW ¼ NE Sec 25 T. 5 R. E

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

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use 20 yrs.

T 5 S R _ E

Sec 25

Signature of Owner T. Hardie Jacobs

Range No? N? or S?

Date December 23, 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.

12124

1004

State of Montana
County of Gallatin } ss.

Filed Dec 23 1963
at 2:09 o'clock P. M.
Earl Walton
COUNTY CLERK & RECORDER
By [illegible]
DEPUTY

Fee $2.00

GROUNDWATER INDEX

County Gallatin Twp. 6S Rge. 3E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
35	Big Sky of Mont. Inc.	42 N 2	2362	
35	Big Sky of Mont. Inc.	42 N 2	2361	
35	Big Sky of Mont. Inc.	42 N 2	2357	
36	Big Sky of Mont. Inc.	42 N 2	2360	
36	Big Sky of Mont. Inc.	42 N 2	2359	
36	Big Sky of Mont. Inc.	42 N 2	2358	

GW 2

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

File No. .....

MONTANA WATER RESOURCES BOARD
RECEIVED
APR 2 1971

T. 6 S R. 3 E 35

DUPLICATE

County Gallatin

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 BIG SKY OF MONT. INC. Address BOZEMAN, MONTANA

Driller VAN DYKEN DRILLING CO Address BOZEMAN, MONTANA

Date of Notice of appropriation of groundwater none

Date well started 8/9/70 Date completed 8/14/70

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

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐ Test hole

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.

LOG

Top of Ground

(Elev. above sea level 6482)

0'--1' Soils.

1'--19' Claybound. Boulders & gravels.

19'--32' Lenses of clays, sands, boulders, dirty gravels. Cleanest @ 21 to 27'. Water level @ 8'.

32'--33' Brown claybound sands.

33'--39' Claybound sands & small gravels. 10 G.P.M. @ 33'.

39'--42' Dark brown sticky clays.

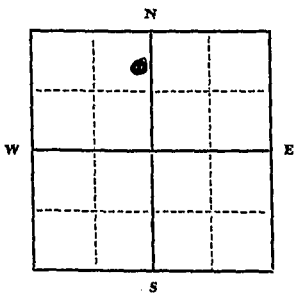
42'--? Shales.

T.D. 42'

WELL NO. 7.

Show exact depth of bottom.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8" O.D. 17#per ft. tested	0	42'	¼"x2" slots	21	27
					33	38



NE ¼NW Sec. 35 T. 6 S R. 3 E

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

Static Water Level for non-flowing well 6' feet.

Shut-in Pressure for Flowing Well none

Pumping Water Level 10' feet at 30 gal. per minute.

Discharge in gal. per min. of flowing well none

How Tested Bailer

Length of Test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Drill cuttings outside of casing.

(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).

Doc. No. 2362
Filed for record this 22 day of April A. D. 19 71 at 12:55 o'clock P M.

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.

LICENSE NO. I
Driller's License Number

Bert Van Dyken
Driller's Signature.

48291

2362

State of Montana
County of Gallatin } ss.

Filed April 1, 1971
at 12:55 o'clock P.M.

Carl L. Stucky
County Clerk & Recorder

By Ellen M. Haugen
Deputy

Fee $ 2.00 Cd.

layers; medium compact, saturated

32.0

SAND, clayey; with scattered

NORTHERN TESTING LABORATORIES

GREAT FALLS • MISSOULA • BILLINGS MONTANA • BOISE IDAHO

35

LOG OF EXPLORATION BORING

HOLE NO. DH-W-7

JOB NO. 70-31

SHEET 1 OF 1

DRILL TYPE: SOIL Cable Tool ROCK Cable Tool	PROJECT Big Sky of Montana
SIZE, TYPE OF BIT 5"	UNIT Water Supply - Meadow Village
CASING: SIZE 6" LENGTH 42'	LOCATION On North Fork, 1/4 mi. South of guest ranch
TOTAL NO. OF OVERBURDEN SAMPLES TAKEN Disturbed 0 Undisturbed 0	NAME OF DRILLER Van Dyken
	ELEVATION: TOP OF HOLE 6482 GROUNDWATER -5.0'
TOTAL NO. CORE BOXES 0 / TOTAL CORE RECOVERY FOR BORING (%)	THICKNESS OF OVER-BURDEN 42.0' / DEPTH DRILLED INTO ROCK 1.0' / TOTAL DEPTH OF HOLE 43.0'
REMARKS Classification by driller generally confirmed by inspector	DATE HOLE Started 8-13-70 Completed 8-21-70
	SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	1.0		Top Soil			
			SAND, clayey; some boulders to 19', medium firm to soft, dry to wet			Casing perforated 32'-24'; 21 rows of 4 slots
	10.0					
	19.0	GWL				
	21.0		GRAVEL, Clayey; some clean layers, medium compact, saturated			
	32.0		SAND, clayey; with scattered gravel, saturated, loose,			
	39.0		CLAY, Gravelly; wet			
	42.0		SHALE; claystone			
	43.0		Bottom of Hole			See additional sheet for pumping test data

NTL 122

GW 2

File No.

DUPLICATE

MONTANA WATER RESOURCES Approved Stock Form—State Publishing Co., Helena, Montana—4855

RECEIVED

APR 2 1971

T. 6 S R. 3 E 35

County Gallatin

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 BIG SKY OF MONT. INC. Address BOZEMAN, MONTANA

Driller VAN DYKEN DRILLING CO Address BOZEMAN, MONTANA

Date of Notice of appropriation of groundwater none

Date well started 8/4/70 Date completed 8/6/70

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

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐ Test hol

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.

LOG

Top of Ground

(Elev. above sea level 6332)

0'-1' Soils

1'-9' Claybound. Boulders.

9'-31' Claybound sand & gravels. Sloppy. Some water @ 19'-31'

31'-32' Very fine sands.

~~32'-33' Very fine sands.~~ Pea

~~32'-33' Pea/Pea~~

32'-33' Pea size gravels. Water.

33'-37' Green very fine sands.

37'-38' Gray silty sands sands and gravels.

38'-44' Claystone. Water.

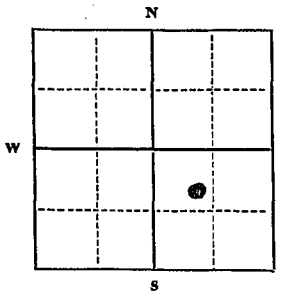
~~44'~~-? Shale

T.D. 44'

WELL NO. 5

Show exact depth of bottom.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8" O.D. 17#per ft. tested	0	44'	¼"x2" slots	29	31
					32	33
					37	38
					38	43



NW¼ SE Sec. 35 T. 6S. R. 3 E.

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

Static Water Level for non-flowing well 7' feet.

Shut-in Pressure for Flowing Well none

Pumping Water Level 19' feet at 20 gal. per minute.

Discharge in gal. per min. of flowing well none

How Tested Bailer

Length of Test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Drill cuttings outside of casing.

(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).

Doc. No. 2361
Filed for record this 12th day of April A. D. 19 71, at 12:50 o'clock P M.

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.

LICENSE NO. 1
Driller's License Number

Bert VanDyken
Driller's Signature.

48290

2361

State of Montana
County of Gallatin } ss.
Filed April 1, 1971
at 12:50 o'clock P.M.
[illegible]
County Clerk & Recorder
By Ella M. Haugan
Deputy
Fee $ 2.00

GRAVEL, Sandy; clean, sand lenses saturated, medium loose, becomes angular at 38.0'

31.0

GREAT FALLS • MISSOULA • BILLINGS • MONTANA

35

NORTHERN TESTING LABORATORIES

LOG OF EXPLORATION BORING

HOLE NO. DH-W-5

SHEET 1 OF 1

JOB NO. 70-31

DRILL TYPE: SOIL Cable Tool ROCK Cable Tool	PROJECT Big Sky of Montana
SIZE, TYPE OF BIT 5"	UNIT Water Supply - Meadow Village
CASING: SIZE 6" LENGTH 44'	LOCATION Downstream of proposed dam location
TOTAL NO. OF OVERBURDEN SAMPLES TAKEN	NAME OF DRILLER Van Dyken
Disturbed 0 / Undisturbed 0	ELEVATION: TOP OF HOLE 6332 GROUNDWATER 8.5'
TOTAL NO. CORE BOXES 0 / TOTAL CORE RECOVERY FOR BORING (%)	THICKNESS OF OVER-BURDEN 44.0' / DEPTH DRILLED INTO ROCK 1.0' / TOTAL DEPTH OF HOLE 45.0'
REMARKS Classification by driller generally confirmed by inspector	DATE HOLE Started 8-4-70 / Completed 8-6-70
	SIGNATURE OF INSPECTOR Vischer

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	1.0		Top Soil CLAY, Gravelly; with boulders, dry, medium compact			
	9.0	GWL	GRAVEL, Sandy; considerable clay, moist, water at 19', medium compact			
	20.0		GRAVEL, Sandy; clean, sand lenses saturated, medium loose, becomes angular at 38.0'			Casing perforated 38'-29' 11 rows of 4 slots Bailing test at 45', 30 g.p.m., 10' drawdown
	31.0					
	44.0		SHALE; claystone hard			
	45.0		Bottom of Hole			

NTL 122

GW 2

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

File No.

T. 6 S R. 3 E 35

DUPLICATE

County Gallatin

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 BIG SKY OF MONT. INC. Address BOZEMAN, MONTANA

Driller VAN DYKEN DRILLING CO. Address BOZEMAN, MONT.

Date of Notice of appropriation of groundwater none

Date well started 7/26/70 Date completed 7/27/70

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

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐ Test hole

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.

LOG

Top of Ground

(Elev. above sea level 6410)

0'--3' Soils.

3'--9' Buff color clay with boulders embedded.

9'--22' Buff color clay bound gravels & boulders.

22--29' Claybound mushy sands. Some gravels.

29--31' Silt, sand & gravels. Some Water.

31--37 Fine sands. Rust color.

37--38' Shale lense.

38--45' Sandstone. Water.

45--? Colorado shale.

T.D. 45'

WELL NO. 1

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8" O.D. 17#per ft. tested	0	45'	¼"x2" slots	34'	44'

Static Water Level for non-flowing well 8' feet.

Shut-in Pressure for Flowing Well none

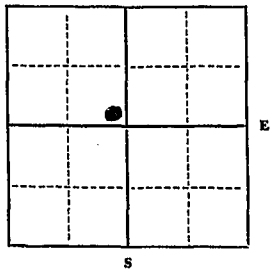
Pumping Water Level 18' feet at 45 gal. per minute.

Discharge in gal. per min. of flowing well none

How Tested Bailer

Length of Test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Drill cuttings outside of casing.



SE ¼ NW Sec. 35 T. 6 S R. 3 E

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).

Doc. No. 5357
Filed for record this 1st day of April A. D. 19 71, at 12:30 o'clock P M.

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.

LICENSE NO. 1
Driller's License Number

Bert VanDyken
Driller's Signature.

48286

2357

State of Montana
County of Gallatin } ss.
Filed April 1, 1971
at 12:30 o'clock P.M.
Carl L. Stitzhy
County Clerk & Recorder
By Alta M. Hanegan
Deputy
Fee $ 2.00 Cd.

	Bailing test with hole at 40' - 20 g.p.m
	Perforated 19 rows of 4 slots each 44' - 34' hole at 45', bailing test 45' g.p.m., 10' drawdown
CLAY, gravelly, soils, wet, soft	
SAND, silty; with gravel, wet, medium loose	
SHALE, hard	
SANDSTONE; medium hard,	

29.0
37.0
38.0

GREAT FALLS • MISSOULA • BILLINGS MONTANA • BOISE IDAHO

APR 2 1971

LOG OF EXPLORATION BORING

35

HOLE NO. DH-W-1

JOB NO. 70-31

SHEET 1 OF 1

DRILL TYPE: SOIL Cable Tool ROCK Cable Tool	PROJECT Big Sky of Montana
SIZE, TYPE OF BIT 5"	UNIT Water Supply - Meadow Village
CASING: SIZE 6" LENGTH 46'	LOCATION west of North Fork Bridge
TOTAL NO. OF OVERBURDEN SAMPLES TAKEN	NAME OF DRILLER Van Dyken
Disturbed 0 / Undisturbed 0	ELEVATION: TOP OF HOLE 6410 GROUNDWATER 8.0'
TOTAL NO. CORE BOXES 0 / TOTAL CORE RECOVERY FOR BORING (%)	THICKNESS OF OVER-BURDEN 37.0' / DEPTH DRILLED INTO ROCK 8.0' / TOTAL DEPTH OF HOLE 45.0'
REMARKS Classification by driller generally confirmed by inspector	DATE HOLE Started 7-23-70 / Completed 7-27-70
	SIGNATURE OF INSPECTOR Diekman

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	3.0		Top Soil			
	8.0	GWL	GRAVEL, clayey; with boulders and cobbles, compact			
	14.0		CLAY, Sandy; some gravel, wet, compact			
	22.0		CLAY, gravelly; some sand, wet, soft			
	29.0		SAND, silty; with gravel, wet, medium loose			Bailing test with hole at 40' - 20 g.p.m
	37.0		SHALE, hard			Perforated 19 rows of 4 slots each 44' - 34' hole at 45', bailing test 45' g.p.m., 10' drawdown
	38.0		SANDSTONE; medium hard, fine grained; andesite at 44.5			
	45.0		Bottom of Hole Casing left in place.			See additional sheet for pumping test data.

NTL 122

Form 2 — Approved Stock Form—State Publishing Co., Helena, Montana—48557

File No. .....

RECEIVED APR 2 1971

T. 6 S. R. 3 E. 36

DUPLICATE

County Gallatin

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 BIG SKY OF MONT. INC. Address BOZEMAN, MONTANA

Driller VAN DYKEN DRILLING CO Address BOZEMAN, MONTANA

Date of Notice of appropriation of groundwater none

Date well started 8/7/70 Date completed 8/9/70

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

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐ Test hole

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.

LOG

Top of Ground

(Elev. above sea level 6230)

0'—1' Soils

1'—12' Clays & silts. Wet at 12'

12'—19' Wheat & pea size gravels. Claybound. Larger gravels @ 13' 10 GPM @ 17'.

19'—21' Very fine tight claybound sands. Little water.

21'—23' Same as above but more clays. Wet.

23'—24' Fine sands & gravel (dirty). Clean gravels lense @ 24'.

24'—31' Cleaner fine sands & gravels. 20 G.P.M. @ 28'.

31'—34' Smooth pea size gravels. Dirty. Not much water.

34'—38' Very loose coarse, clean gravels. 40 G.P.M. Water.

38'—41' Sands. Little amount of gravels.

41'—44' Loose clean gravels fine to coarse. Lots of water.

44'—50' Fine to coarse sand & gravels. Dirty & tight. Water @ 47' not much @ 50'.

50'—? Shales.

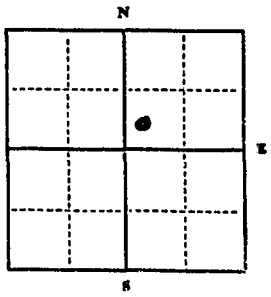
T.D. 50'

WELL NO. 6

Doc. No. 2360
Filed for record this 1st day of April A.D. 19 71, at 12:15 o'clock P M.

Show exact depth of bottom.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8" O.D. 17# per ft. tested	0	50'	¼"x2" slots	27 34 41	31 38 44



Static Water Level for non-flowing well 11' feet.

Shut-in Pressure for Flowing Well none

Pumping Water Level 19 feet at 200 gal. per minute.

Discharge in gal. per min. of flowing well none

How Tested Turbine test pump

Length of Test .....

Remarks: (Gravel packing, cementing, packers, type of shutoff) Drill cuttings outside of casing.

SW¼NE Sec. 36 T. 6S. R. 3 E.
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).

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.

LICENSE NO. I
Driller's License Number

Bert VanDyken
Driller's Signature

48289

2360

30.0		some sandy lenses, and some clayey seams saturated medium loose	
40.0			Bailing test 45 g.p.m. at 1' drawdown

State of Montana
County of Gallatin } ss.

Filed April 1, 1971
at 12:45 o'clock P.M.

Carl L. Stucky
County Clerk & Recorder

By Ella M. Haugen
Deputy

Fee $ 2.00 Rd.

NORTHERN TESTING LABORATORIES

GREAT FALLS • MISSOULA • BILLINGS MONTANA • BOISE IDAHO

36

LOG OF EXPLORATION BORING

HOLE NO. DH-W-6

JOB NO. 70-31

SHEET 1 OF 1

DRILL TYPE: SOIL Cable Tool ROCK Cable Tool	PROJECT Big Sky of Montana
SIZE, TYPE OF BIT 5"	UNIT Water Supply - Meadow Village
CASING: SIZE 6" LENGTH 50'	LOCATION North of West Fork West of Crail Ranch
TOTAL NO. OF OVERBURDEN SAMPLES TAKEN Disturbed 0 Undisturbed 0	NAME OF DRILLER Van Dyken
TOTAL NO. CORE BOXES 0 / TOTAL CORE RECOVERY FOR BORING (%)	ELEVATION: TOP OF HOLE [illegible] GROUNDWATER 11.0'
	THICKNESS OF OVER-BURDEN 50' / DEPTH DRILLED INTO ROCK 1.0' / TOTAL DEPTH OF HOLE 51.0'
REMARKS Classification by driller generally confirmed by inspector	DATE HOLE Started 8-11-70 Completed 8-12-70
	SIGNATURE OF INSPECTOR Vischer

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	BOX OR SAMPLE NO	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	1.0		Top Soil CLAY, Silty; damp to wet medium firm			
	11.0 12.0	GWL				
			GRAVEL, Clayey; medium loose, some sand lenses, saturated			Hole at 19.0' bailing test-10 g.p.m. Hole at 38' bailing test-40 g.p.m
	23.0		GRAVEL, Sandy; clean with some sandy lenses, and some clayey seams saturated medium loose			Hole at 50' bailing test-45 g.p.m. at 1' drawdown
	30.0					
	40.0					
	50.0 51.0		SHALE; claystone			
			Bottom of Hole			See additional sheet for pumping test data

NYL 122

GW 40

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

File No. .....

MONTANA WATER RESOURCES BOARD
RECEIVED
APR 2 1971

T. 6 S R. 3 E 36

DUPLICATE

County Gallatin

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Top of Ground

(Elev. above sea level 6239)

0'--6' Soils, and boulders.

6'--24' Clay bound sands and wheat size gravels. Boulders @ 14'.

24'--27' Shale.

27'--? Shale

T.D. 27'

WELL NO. 4.

Owner BIG SKY OF MONT. INC. Address Bozeman, Mont.

Driller VAN DYKEN DRILLING CO. Address BOZEMAN, MONTANA

Date of Notice of appropriation of groundwater none

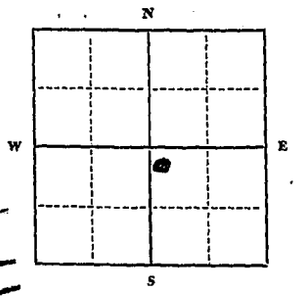
Date well started 7/30/70 Date completed 8/3/70

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

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐ Test hole

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 5/8" O.D. 17# per ft. tested	0	27'	¼" x2" slots	19'	23½'



NW¼SE Sec. 36 T. 6S R. 3E

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

Static Water Level for non-flowing well 16' feet.

Shut-in Pressure for Flowing Well none

Pumping Water Level 22' feet at 20 gal. per minute.

Discharge in gal. per min. of flowing well none

How Tested Bailer

Length of Test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Drill cuttings outside of casing.

(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).

Doc. No. 2759
Filed for record this 22 day of April A.D. 19 71, at 12:40 o'clock P M.

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.

LICENSE NO. 1
Driller's License Number

Bert Van Dyken
Driller's Signature

48268

2759.

State of Montana } SS.
County of Gallatin

Filed April 1, 1971
at 12:40 o'clock P.M.

Carl L. Stucky
County Clerk & Recorder

By Ella M. Haugen
Deputy

Fee $ 2.00

SHALE; gray/layered firm, damp

27.0

See additional sheet for pump test data

NORTHERN TESTING LABORATORIES

GREAT FALLS • MISSOULA • BILLINGS MONTANA • BOISE IDAHO

36

LOG OF EXPLORATION BORING

HOLE NO. DH-W-4

JOB NO. 70-31

SHEET 1 OF 1

DRILL TYPE: SOIL Cable Tool ROCK Cable Tool	PROJECT Big Sky of Montana
SIZE, TYPE OF BIT 5"	UNIT Water Supply - Meadow Village
CASING: SIZE 6" LENGTH 24'	LOCATION Condominium area, west end
TOTAL NO. OF OVERBURDEN SAMPLES TAKEN	NAME OF DRILLER Van Dyken
Disturbed 0 / Undisturbed 0	ELEVATION: TOP OF HOLE 6239 GROUNDWATER 16.0'
TOTAL NO. CORE BOXES 0 / TOTAL CORE RECOVERY FOR BORING (%)	THICKNESS OF OVER-BURDEN 24.0' / DEPTH DRILLED INTO ROCK 3.0' / TOTAL DEPTH OF HOLE 27.0'
REMARKS Classification by driller generally confirmed by inspector	DATE HOLE Started 7-30-70 / Completed 8-3-70
	SIGNATURE OF INSPECTOR Diekman

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
			Top Soil			
	5.0		CLAY, Gravelly; boulders medium loose, dry			
			CLAY, Gravelly; damp to wet medium loose			Perforated 23 1/2' - 19' 7 rows - 4 slots each row
	16.0	GWL				Bailing test with hole at 27' - 20 g.p.m.
			some boulders at 14'			
	24.0					
	27.0		SHALE; gray layered firm, damp			
						See additional sheet for pump test data

NTL 122

GW/2

File No.

DUPLICATE

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

T 6S R 3E

36

County Gallatin

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 BIG SKY OF MONT. INC. Address BOZEMAN, MONTANA

Driller VAN DYKEN DRILLING CO. Address BOZEMAN, MONTANA

Date of Notice of appropriation of groundwater none

Date well started 7/27/70 Date completed 7/28/70

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

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐ Test hole

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.

LOG

Top of Ground

(Elev. above sea level 6178)

0'--0'

0'--6' Soils, boulders & clays.

6'--21½' Claybound sand & gravels. Sandy @ 15'. 5 G.P.M.

21½'--23' Clean pea gravels. 15 G.P.M.

23'--25' Fine sands. Not much water.

25'--30' Wheat size gravels and sands. Dirty. 10 G.P.M. @ 26'

30'--30½' Coarse dirty gravels. Little water.

30½'--33' White color sticky clays embedded with small gravels.

33'--34' Shale.

34'--36' Very fine sands. Little water.

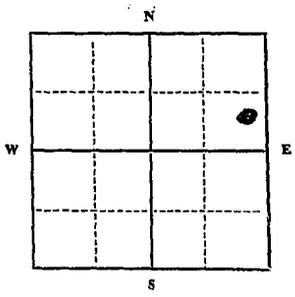
36'--? Colorado shale.

T.D. 36'

WELL NO. 3

Show exact depth of bottom.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8" O.D. 17#per ft. tested	0	36'	¼"x2" slots	25'	30'



Static Water Level for non-flowing well 7' feet.

Shut-in Pressure for Flowing Well none

Pumping Water Level 13' feet at 45 gal. per minute.

Discharge in gal. per min. of flowing well none

How Tested Bailer

Length of Test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Drill cuttings outside of casing.

SE¼NE Sec. 36 T. 6S R. 3E

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).

Doc. No. 2358
Filed for record this 1st day of April A.D. 19 71, at 12:35 o'clock P M.

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.

LICNESE NO. 1
Driller's License Number

Bert VanDyken
Driller's Signature.

48287

2358

State of Montana
County of Gallatin } ss.

Filed April 1, 1971
at 12:35 o'clock P M.

Carl L. Stucky
County Clerk & Recorder

By Ella M. Hengeveld
Deputy

Fee $ 2.00

NORTHERN TESTING LABORATORIES

GREAT FALLS • MISSOULA • BILLINGS MONTANA • BOISE IDAHO

36

LOG OF EXPLORATION BORING

HOLE NO. DH-W-3

JOB NO. 70-31

SHEET 1 OF 1

DRILL TYPE: SOIL Cable Tool ROCK Cable Tool	PROJECT Big Sky of Montana
SIZE, TYPE OF BIT 5"	UNIT Water Supply - Meadow Village
CASING: SIZE 6" LENGTH	LOCATION East of Crail Ranch animal pens
TOTAL NO. OF OVERBURDEN SAMPLES TAKEN	NAME OF DRILLER Van Dyken
Disturbed 0 / Undisturbed 0	ELEVATION: TOP OF HOLE 6179 GROUNDWATER 8.2'
TOTAL NO. CORE BOXES 0 / TOTAL CORE RECOVERY FOR BORING (%)	THICKNESS OF OVER-BURDEN 33.0' / DEPTH DRILLED INTO ROCK 3.0 / TOTAL DEPTH OF HOLE 36.0
REMARKS Classification by driller generally confirmed by inspector	DATE HOLE Started 7-30-70 / Completed 7-31-70 SIGNATURE OF INSPECTOR Diekman

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	1.0		Top Soil			
	6.0		CLAY, Gravelly; some boulders, dry, compact			
	8.2	GWL	CLAY, Gravelly; considerable sand, medium firm, moist then wet			Bailing test with hole at 17'; 5 g.p.m. No drawdown. Bailing test with hole at 25'; 15 g.p.m. No drawdown.
	21.5		GRAVEL, Sandy; gravel small sand lenses, medium loose, saturated, some clayey seams			Perforations: 25.0' - 30.0'
	30.5		CLAY, Silty; dry			
	33.0		SHALE; then poorly cemented sand stone			
	36.0		Bottom of Hole Casing left in place			See additional sheet for pumping test date

NTL 122

GROUNDWATER INDEX — —

County Gallatin Twp. 6 S Rge. 4 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
1	Burck Edgar L	GW 2	3237	
1	Carlson Harold N.	GW 4	1368	
	Karst Ranch			
1	Carlson Harold N. &	GW 2	2302	
	Carlson Esther J.			
1	Carlson Harold N.	GW 4	1367	
	Karst Ranch			
1	Dale James A.	GW 2	2095	
1	Kelsey Jim & Marie	GW 2	3199	
1	McDaniel Jack & Mary	GW 2	2997	
1	Miller David A. and	GW 2	2181	
	Miller Norma L.			
1	Miller Sherman	GW 2	3377	
1	United States of America	GW 4	726	
1	Ricks Wayne	GW 2	1239	
12	Durrow E.J. & Isabelle	GW 3	948	
12	McCracken Florence M.	GW 2	1026	
12	McCracken Florence M.	GW 2	1027	
12	Seibel Robert C and	GW 2	2986	
	Seibel Ann M.			
22	McCusker J. Tom	GW 3	665	
22	McCusker J. Tom	GW 2	2146	
27	Van Dyke Garrett	GW 1	1874	
31	Carey Mildred L &	GW 2	3193	
	Carey Austin N.			
31	Eickeland Mark	GW 2	3105	
31	Hintzpeter Barbara R	GW 2	2984	
31	Hintzpeter Barbara R.	GW 2	2313	
31	Lawrence L. A.	GW 3	1861	
31	Lawrence Larry L. and	GW 3	2101	
	Lawrence Ann J.			
31	Mertz Edna Belle	GW 3	1865	
31	Mertz Edna Belle Mrs	GW 2	3072	
31	Rehm Russell &	GW 2	3243	
	Rehm Bernice T			
~~31~~	~~A.W. Robertson and~~	~~GW 2~~	~~2305~~	
31	Robertson A. W. and	GW 2	2305	
	Robertson Blanche Mrs			
31	Vogel W. Glenn	GW 3	3242	
31	Vogel W. Glenn	GW 3	3241	
31	Ward Hallie H. Mrs	GW 2	1871	
31	Ward Lucille B	GW 3	2301	

Twp. 65 Rge. 4E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
32	Benolken Lee & Benolken Verne	GW4	1257	
32	Dawes Madeline	GW2	2303	
32	Vick Dorothy M.	GW3	2321	
32	Sudbury Chapel Corp.	DT Mel Log	98	
33	Shadowen J. A	GW3	922	
33	Robbins Earl S.	GW4	1992	

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

65-4E

County Gallatin

RECEIVED

JUN 1973

DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

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 Edgar L. Burch

Address 225 W. Main St.
Bozeman, Mont. 59715

Date well started April 25, 1969

completed April 27, 1969

For Administrator's Use
File 3237
May 30, 1973
GW 1 9:30 A.M.

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

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

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

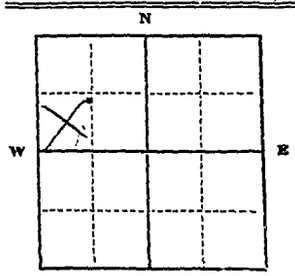
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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"	6 5/8 OD x 17#	1' above ground	27'			



Lot 4, Karst's Subdiv. No. 2
SE ¼ NE ¼ Sec. 1
T. 6S N/S R. 4E E/W

Static water level 15 ft.*
Pumping water level 31 ft.*
at 12 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Pump
for 1 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 Milton E. Jones

Driller's Address 2103 Bridger Drive
Bozeman, Montana LICENSE NO. 17

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	16	Clay & Rock
16	26	Clay Boulder Gravel
26	31	Clay & Gravel
31		Rock

31' Show exact depth of bottom

53,337

3237

State of Montana
County of Gallatin } ss.

Filed May 30, 1973
at 9:36 o'clock A M.
Linda A Rudger
County Clerk & Recorder
By Carl L. Stucky
Deputy
Fee $ 2.00 pd

GW

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

File No.....

T. 6S R. 4E

DUPLICATE

County Gallatin

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

RECEIVED JAN 16 1964 STATE ENGINEER

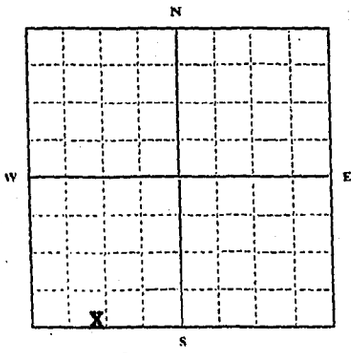
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Harold W. Carlsen, doing business as Karst Ranch of Gallatin Gateway
(Name of Appropriator) (Address) (Town)

County of Gallatin State of Montana

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



Lot 2

.....¼..... Sec. 1 T. 6S R. 4E

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 a guest ranch, commercial operation, cafe, bar & household, and irrigation.

3. Date or approximate date of earliest beneficial use and how continuous the use has been first used 1905

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 900 gallon per hour

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 Used to irrigate about 3 acres in Karst Homestead Entry, E½ Sec. 1, T6S, R 4 E. Gallatin County. Harold W. Carlsen

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal spring located in SE corner of Lot 2, from there water piped to homestead location.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater pipe line first completed about 1910.

8. The depth of water table surface

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 pipe line is about 1000' long; at spring is wooden spring box with overflow control.

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

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 Harold W. Carlsen

Date Dec 30, 1963

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

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

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

35682

1368

State of Montana (ss.
County of Gallatin)

Filed 12-30, 1963
at 3:01 o'clock P M.
Earl Walton
COUNTY CLERK & RECORDER
By Thelma Fiddes
DEPUTY
Fee $2.00

GW 2

Approved Stock Form State Publishing Co., Helena, Montana—4855

File No.....

T. 6S R. 4E

County Gallatin

DUPLICATE

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 Harold W. & Esther J. CARLSEN Address Canyon Route Gallatin Geteway, Mont.

Driller Potts Drilling and Dev. Address R.R.#1 Bozeman, Montana

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

Date well started July 13, 1970 Date completed July 15, 1970

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)
6"	6" I.D.	+2	25			

LOG

Top of Ground

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

0 - 12 feet
Coarse Dirty overburden

11 feet
Static Water Level

12 feet
trickle of water

12 - 22 feet
Coarse dirty overburden

22 - 27 feet
Sand and Gravels

Show exact depth of bottom.

Doc. No. 2302
Filed for record
this 14 day of August
A. D. 19 70, at 12:20
o'clock P M.

N
W E
S

SE ¼ SE Sec. 1 T. 6S R. 4E

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

Static Water Level for non-flowing well 11 feet.

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

Pumping Water Level 12 feet at 30 gal. per minute.

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

How Tested Pumped

Length of Test 1 hour

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).

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.

150
Driller's License Number

Herbert A Potts
Driller's Signature.

47368

#7302

State of Montana
County of Gallatin } ss.
Filed August 14, 1970
at 12:20 o'clock P. M.
Carl L. Stucky
County Clerk & Recorder
By Lucille A. Mapes
Deputy
Fee $ 2.00 pd.

GW

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

File No.

T. 6 S R. 4 E

DUPLICATE

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

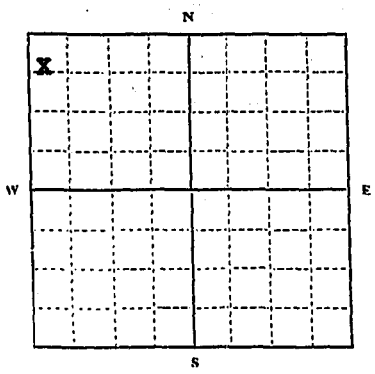
RECEIVED
JAN 16 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Harold W. Carlsen, doing business as Karst Ranch of Gallatin Gateway
(Name of Appropriator) (Address) (Town)

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



Lot 9
¼ Sec. 1 T. 6S R. 4 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 a guest ranch, commercial operation, cafe, bar & household, and irrigation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1905, continuous ever since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 2000 gallon per hour of continuous operation

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 irrigates about one acre on Lot 9, Section 1, Township 6 South, Range 4 East, Gallatin County, Montana, owner is Harold W. Carlsen, doing business as Karst Ranch.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal electric 1 horse power pump located beneath main building

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater well dug in 1905 and completed same year.

8. The depth of water table 32 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 well cased with 4 foot steel casing to depth of 12 feet, concreted, and 1¼" pipe with sand point below that to depth of 34'.

10. The estimated amount of groundwater withdrawn each year 5,000,000 gallon

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 Harold W. Carlsen

Date Dec. 30, 1963

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

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

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

35681

1367

State of Montana } ss.
County of Gallatin }

Filed 12-30, 1963
at 3:00 o'clock P.M.
Earl Hamilton
COUNTY CLERK & RECORDER
By Glenna Rees
DEPUTY
Fee $ 2.00

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4232.

File No. ..... STATE WATER CONSERVATION BOARD

MAY 2 1967

T. 6S R. 4E

DUPLICATE

County Gallatin

LOG

Billings ..... McDermott ..... STATE OF MONTANA
Butte ..... Missoula ..... ADMINISTRATOR OF GROUNDWATER CODE
Conrad ..... Morrison ..... OFFICE OF STATE ENGINEER
Darlington ..... Sullivan .....
Dickert .....

Top of Ground Top Soil
(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)

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32

Gravel & Boulders

Tight Sand

Gravel

Owner James H Dale Address Cairo, Illinois

Driller M.E. Jones Address Bozeman

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

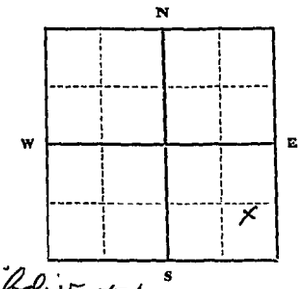
Date well started Aug. 22 1966 Date completed Aug. 26, 1966

Type of well Drilled (Dug, Driven, bored or drilled) Equipment used Churn Drill (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" I.D. x 11'	1' above Ground	28'	None		



Static Water Level for non-flowing well 14 feet.

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

Pumping Water Level 28 feet at 20 gal. per minute.

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

How Tested Bailer

Length of Test 1 Hour

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

Lot 5, Hard Subdiv #1

SE¼SE¼ Sec. 1 T. 6S R. 4E

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.

17
Driller's License Number

Milton E. Jones
Driller's Signature

41,952

2095

State of Montana } ss.
County of Gallatin

Filed May 1, 1967
at 11:30 o'clock a M.

Carl L. Stucky
County Clerk & Recorder

By Lucille A. Maxwell
Deputy

Fee $ 2.00

Type of well?
Equip used?
Water Use?

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

T 1S R 4E

County Gallatin

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)

Owner Jim & Marie Kelsey Address Canyon Route Gallatin Gateway

Driller Harold Hulbert Address Rt 1 Bozeman, Mont

Date of Notice of appropriation of groundwater

Date well started Oct 2, 1968 Date completed Oct 4, 1968

Type of well (Dug, driven, bored or drilled) Equipment used (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 "	19 lb 6 5/8 O. D.	2 above	24		None	

Static Water Level for non-flowing well 17 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 24 feet at 12 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Pump & bailer

Length of Test 2 hrs pumping 2 hrs bailing

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

Doc. No. 3199
Filed for record this 5th day of March A.D. 1973 at 10:45 o'clock A.M.

N W E S

Karsts Subdivision #2

Lot 2 Sec. 1 T. 6 S. R. 4 E.

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.

47
Driller's License Number

Harold B. Hulbert
Driller's Signature.

53,583

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

RECEIVED

MAR 9 1973

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

T. 6S R. 4E

DUPLICATE

County Gallatin

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.....)

0-2 clay Rock
2- 6 clay
6-8 rock
8-10 rock
10-14 clay & rock
14-16 gravel & water
16-17 gravel rock & clay
17--29 rock
29-30 gravel sand & water
28' Bottom of well

Owner Jim & Marie Kelsey Address Canyon Route Gallatin Gateway

Driller Harold Hulbert Address Rt 1 Bozeman, Mont

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

Date well started Oct 2, 1968 Date completed Oct 4, 1968

Type of well..... (Dug, driven, bored or drilled) Equipment used..... (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 "	19 lb 6/5/8 O. D.	2 above	24		None	

Doc. No. 3199
Filed for record
this 5th day of March
A.D. 19 73 at 10:45
o'clock A.M.

N
W E
S

Static Water Level for non-flowing well 17 feet.

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

Pumping Water Level 24 feet at 12 gal. per minute.

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

How Tested Pump & bailer

Length of Test 2 hrs pumping 2 hrs bailing

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

Karsta Subdivision #2

Lot 2 Sec. 1 T. 6 S. R. 4 E.

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.

47
Driller's License Number

Harold B. Hulbert
Driller's Signature.

53,583

#3199

State of Montana
County of Gallatin } ss.

Filed March 5, 1973
at 10:45 o'clock A M.

C. L. Stucky
County Clerk & Recorder

By Ella Hanigan
Deputy

Fee $ 2.00

GW 2 Revised 1969
STATE PUBLISHING COMPANY

6 S 4 E 1

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA WATER RESOURCES BOARD
RECEIVED
AUG 30 1971

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 McGuire ~~McGuire~~, Jack & Mary

Address Canyon Rt.

Gallatin Gateway, Montana

Date well started July 8 1971

completed July 8 1971

For Administrator's Use
File 2997
August 27, 1971 2:45 PM
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"	6 5/8 OD I9 lb	2 above	2I		none	

N
W E

Lot # 6, Karst Sub-div.#1

¼ ¼ Sec. 1

T. 6S N/S R. 4E E/W

Static water level 8 ft.*

Pumping water level 2I ft.*

at I5 gallons per minute,

measured 60 minutes after pumping began.

*Measured from ground level.

Well developed by bailer pump

for I½ hours pump

Power 230volt pump 3/4 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 Harold R. Hulbert

Driller's Address Rt One Bozeman, Montana

Hulbert Drilling LICENSE NO. 47

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	5	soil & rock
5	I3	Gravel
I3	22	sand very small amount of water
22	23	water

23 Show exact depth of bottom

48960