3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
JUN 29 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

25N-18W 14

County Lake

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 Alan Clonginger

Address Swan Lake
Montana

Date well started June 24, 1973

completed June 23, 1973

For Administrator's Use
File A1496; 21U515
June 26, 1973
GW 1 1:05 p.m.

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

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

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

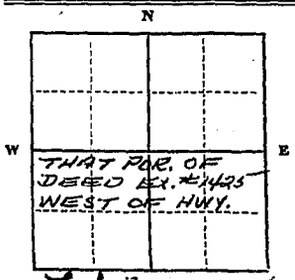
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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)
6 in	6 in	0	30	None		



Lot 3 S 14

¼ ¼ Sec. 23

T. 25 N/S R. 18 E/W

Static water level 4 ft.*

Pumping water level ft.*

at 11 gallons per minute,

measured minutes after pumping began.

*Measured from ground level.

Well developed by bailer

for 3 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 William J. Holm

Driller's Address Rt 1 Bigfork, Mont.

59911 LICENSE NO. 234

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	4	gravel
4	5	gravel 3 gal per Min
5	15	clay
15	25	gravel + sand
25	30	gravel.

30 ft. Show exact depth of bottom

54445

210513

R-1496

Well Report

Don Clonfinger

to

The Public

STATE OF MONTANA
County of Lake
Filed on the 28 day of June
A.D. 19 23 at 1:05 o'clock P M
ETHEL M. HARDING
County Clerk and Recorder
By Elaine Elsperman
Deputy

RECEIVED
JUN 28 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

25N-18W 14

3 GW 2 Revised 1969
13—3M—10/69

County LAKE

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 Francis Gallagher and Ervin Fast

Address P. O. Box 512
Glasgow, Montana 59230

Date well started 5-18-73
completed 5-18-73

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 ☒

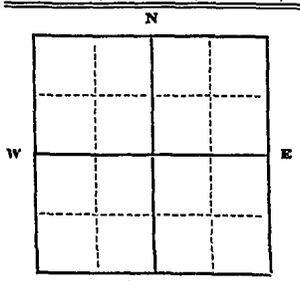
*Describe

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). 2.5 acres

ESTIMATED ANNUAL WITHDRAWAL 9,000,000 gallons

For Administrator's Use
File 1492; 210487
June 27, 1973
GW 1 3:45 p.m.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
5 5/8	.280 wall casing 6 5/8 OD Ground level 18.8# per foot	18"	42'	None	None	None



A Tract in Lot 2, 14
25 ¼ ¼ Sec. 18
T. N S R. E W

Static water level 3' ft.*
Pumping water level 8' ft.*
at 40 gallons per minute,
measured 360 minutes after pumping began.
*Measured from ground level
Well developed by Bailer
for one hours. 1/2
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 Robert W. Nelson

Driller's Address Box 125 Swan Lake Mont

Driller LICENSE NO. 103

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	12	Clay and Silt
12	18	Gravel and Clay
		Surface Water
18	37	Gray Clay
37	42	Clean Gravel

42' Show exact depth of bottom

54037

R-1492 260487

WELL REPORT

FRANCIS GALLAGHER

&

ERVIN FAST

TO

THE PUBLIC

STATE OF MONTANA }
County of Lake } ss

Filed on the 27 day of June

A.D. 1973 at 3:45 o'clock P.M.

ETHEL M. HARDING
County Clerk and Recorder

By [signature] Deputy

GW

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

0.14

File No. STATE WATER CONSERVATION BOARD

T. 25 N. R. 18 W.

DUPLICATE JAN 5 1967

County Lake

Billo McDermott
Butzerin McNully
Coyle Mo
Darlinton Sullivan
Dickert

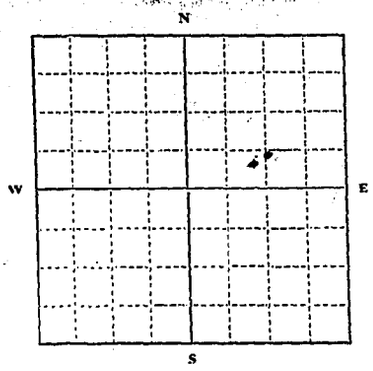
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. George M. Kahn Jr., of Swan Lake
(Name of Appropriator) (Address) (Town)

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



SW 1/4 NE 1/4 Sec. 14 T. 25 R. 18

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 Aug 10 1959 - Continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 14 gal

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
Lawn & Garden

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Aug 5th Aug 7 69

8. The depth of water table 33'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6 in Casing 38

10. The estimated amount of groundwater withdrawn each year 365 00

11. The log of formations encountered in the drilling of each well if available
Top soil in Clay and rock to 20' depth 31.1 brown to 38'

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 George M. Kahn Jr.

Date 12-19-66

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.

41608

R-1058

178312

Water Report

George M. Kahn Jr.

to

The Public

STATE OF MONTANA }
County of Lake } ss

Filed on the 3 day of January

A.D. 1967 at 1:42 o'clock P.M

ETHEL M. HARDING

County Clerk and Recorder

By M. Knaus

Deputy

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
APR 11 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

25N-18W 14
County LAKE

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 WAYNE MAKI
Deer Lick Resort
Address SWAN LAKE
MONT Box 116 59911

Date well started 7/3/1952
completed 7/15/1952

For Administrator's Use
File 208912; R-1437
April 10, 1973
GW 1 12:35 p.m.

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

Equipment used rotary (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

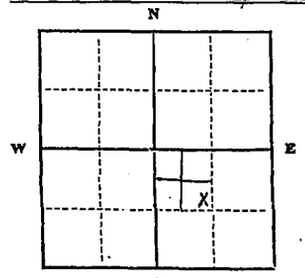
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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). 1 Acre

ESTIMATED ANNUAL WITHDRAWAL 6,4000 gal

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8 in	18 lbs per ft 6 in	above ground 2 ft	60 ft			



* PART 4 of 4
¼ ¼ Sec. 14
T. 25 N R. 18 W
S W

Static water level 48 ft.*
Pumping water level 78 ft.*
at 10 gallons per minute,
measured 30 minutes after pumping began.
*Measured from ground level.
Well developed by DRILL
for 12 hours.
Power ELEC Pump 3/4 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) CEMENT

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

Driller's Signature DECEASED - unknown

Driller's Address Unknown

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	20	GRAVEL
20	26	YELLOW CLAY
26	50	GRAVEL
50	60	SAND

60 ft Show exact depth of bottom

*Trs in Govt Lot 4 14025018
No.179' of S 600 feet W of Hwg
No.350' of S 950 feet W of Hwg

LICENSE NO. Unknown

52,870

#208912

R-1437

WAYNE MAKI
DEER LICK RESORT

TO

THE PUBLIC

WELL REPORT

STATE OF MONTANA
County of Lake } ss

Filed on the 10 day of April
A. D. 19 73 at 12:35 o'clock P M
ETHEL M. HARDING
County Clerk and Recorder
By Jewell Berg
Deputy

GW

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

14

File No.....

T. 25 N R. 18 W

DUPLICATE

County LAKE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964
STATE ENGINEER

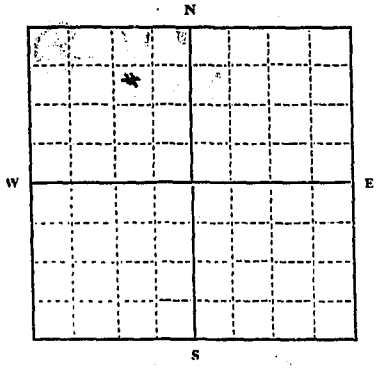
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Roy W. & Margaret Stahl of Swan Lake
(Name of Appropriator) (Address) (Town)

County of Lake State of Montana

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



SW NE ¼ NW Sec 14 T 25 R 18

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 Resort & Household

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1940

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 gals per minute on all groundwater

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 Automatic pumps

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

8. The depth of water table 20'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 4" inch casing 25 ft deep

10. The estimated amount of groundwater withdrawn each year 365,000 Gals

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

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

Signature of Owner Roy W. Stahl Margaret Stahl

Date 12/28/63

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.

24233

R-732 163075

Roy W. & Margaret Stahl

STATE OF MONTANA } ss
County of Lake,
Filed on the 31 day of Dec.
A. D. 19 63 at 11:50 o'clock A M
HAZEL KINNICK
County Clerk and Recorder
By M. Knauss
Deputy.

2.00

File No. ..... GW 4 T. 25 N R. 18 W 14

County Lake

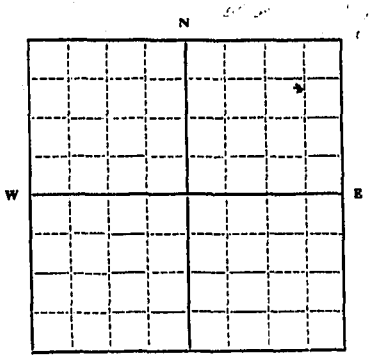
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Alvis L. & Irene A. Taylor (Name of Appropriator), of Box 113 (Address) Swan Lake (Town)
County of Lake State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Intr. int in Lot 1 of NE 1/4 NW Sec 14 T25 R18.

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: House Hold + Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: House Hold + Irrigation - Continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 60 gallons per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: None

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: By pump - Electric

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Begun 4-17-62 finish 4-19-62

8. The depth of water table: 35 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: 7" Casing 35 feet deep

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

11. The log of formations encountered in the drilling of each well if available: Sand + gravel

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

Signature of Owner: Alvis L. Taylor, Irene A. Taylor
Date: 12-26-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.
Please answer all questions. If not applicable, so state, otherwise the form will be returned.

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

14890

R-484 167777

Water Report

Alvis L. & Irene A. Taylor

to

The Public

STATE OF MONTANA } ss
County of Lake,
Filed on the 26 day of Dec
A.D. 1963 at 4:30 o'clock P.M.
L. Hurnik
County Clerk and Recorder

By _____ Deputy

7.00

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—3908

File No.....

DUPLICATE

T. 25 N R. 18

County Lake

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED Oct 15 1962 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 3600)

0 to 3½ topsoil

3½ to 18 sand and gravel water at 12'

18 to 19' clay

19 to 21' cement gravel

21 to 24½ sand and gravel

Owner Lloyd H. Gliebe Address Box 593 Polson

Driller Robert W. Hudson Address Box 131 Bigfork

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

Date well started Sept 17 Date Completed Sept 20 62

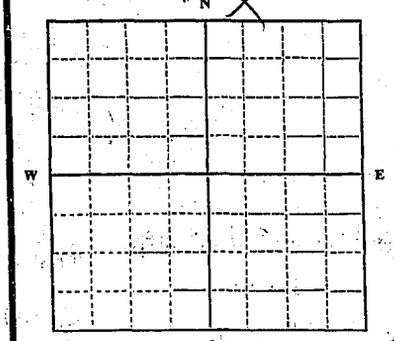
Type of well Drilled (dug, driven, bored or drilled) Equipment Used Churn Drill (Churn, drill, rotary or other)

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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	7"x 18# per FT	3½	24'	Brass		

in Lot 4



.....¼..... Sec 14 T. 25 N R. 18

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

Show exact depth of bottom. 24½

Static Water Level for non-flowing Well 9½ feet.

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

Pumping Water Level 10½ feet at 30 gal. per minute.

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

How Tested Pump 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).....

103

Driller's License Number

Robert W. Hudson

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.

2234

R-120

156894

STATE OF MONTANA }
County of Lake, } ss.
Filed on the 10 day of Oct
A. D. 1963 at 1:00 o'clock PM
HAZEL KINNICK
County Clerk and Recorder
By E Coiman
Deputy

2.00

GW 3

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

File No.....

DUPLICATE

T. 25 N R. 19 W.

County LAKE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 2 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater June 1, 1963

Owner S. C. Toole Address Swan Lake, Mont.

Contractor (if any) None

Address of Contractor None

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

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Sub-irrigation water from Swan Lake, Swan River and Spring Creek on and adjacent to S½NE¼, N½NE¼, S½NW¼, NE¼SW¼, N½NW¼SW¼ Sec 26 S½NE¼, Part HES No 272 Sec 27 SE¼ Sec 26 and Lockow Property joining Lake + River in Secs 22, 26, 27, 23

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use. Since 1890 and prior to that Time since time immemorial — This is underground water that sub irrigates at least 1000 acres now under lease or contract by me —

Signature of Owner S. C. Toole

Date Dec 27, 1963

N
W E
S

.....¼..... Sec..... T..... R.....

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

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

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

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

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

17322

R-565

162886

Water Report

J C Toole

to

The Public

STATE OF MONTANA } ss.
County of Lake,
Filed on the 30 day of Dec
A. D. 1963 at 9:25 o'clock A M
HAZEL KINNICK
County Clerk and Recorder
By M. Knauss Deputy

$2.00

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—3908

File No.....

T. 25 N R. 18 W

DUPLICATE

County Lake

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
APR 9 1964
STATE ENGINEER

Top of Ground

(Elev. above sea level 3052)

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Norman F. MARTIN Address Swan Lake, Mont.

Driller Robert W. Hudson Address Swan Lake, "

Date of Notice of Appropriation of Groundwater —

Date well started 4-15-62 Date Completed 4-16-62

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

Water Use: Domestic [X] Municipal [ ] Other [ ] Irrigation [X]
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.

9½ open Hole
clay
and
Hard pan
to
22 ft.
clay
and
Gravel
to 27
clear
Gravel
to 28'-6"

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6 5/8	6 5/8 O.D. 17 lb.	3'8"	28'6"	none		

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

Shut-in Pressure for Flowing Well 5' 4"

Pumping Water Level 6' 6" feet at 35 gal. per minute.

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

How Tested Pump 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) 1 A.

N
W E

Swan Lake Tracts Lots S½ Lot 11 Lot 12
¼ Sec. 23 T. 25 N R. 18 W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom. 28' 6"

103
Driller's License Number

Robert W. Hudson
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.

35558

R 939
164930
Shell Report
Norman E. Marten
to
The Public

STATE OF MONTANA
County of Lake,
Filed on the 7 day of April
A. D. 1964 at 10:15 o'clock A M
HAZEL KINNIUS
County Clerk and Recorder
By D. Kraus
Deputy

$1.00

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
SEP 8 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

25N-18W
County LAKE 23

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 Rose Ellen Tyrell Hawthorne

Address Swan Lake Mont

For Administrator's Use
File 12-1578 20-528
Sept. 6, 1972 - 4:40 p.m.
GW 1

Date well started 8-22-72
completed 8-23-72

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 ☐* 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)
5 3/4	6 5/8 od. 216 wall	+1"	33		28	33

Top of Ground (Elev. above sea level) 3200

From (Feet)	To (Feet)	
+12	14	Top soil clay and bor
14	16	Brown sand surface water
16	29	Grey clay and brown
29	33	sand and Gravel water 5'7" to top of Brown

N
W E

Static water level 5'7" ft.*
Pumping water level ft.*
at gallons per minute,
measured minutes after pumping began.
*Measured from ground level.
Well developed by Bailer
for hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) none

N½ of Lot 9
¼ ¼ Sec. 23
T. 25 N. R. 18 W.
Swan Lake Tavern Lots

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

Driller's Signature Robert Hudson
Driller's Address Swan Lake Mont
Robert Hudson LICENSE NO. 103

33' Show exact depth of bottom

51,331

R-1378

205525

ROSE ELLEN TYE

TO

THE PUBLIC

WELL REPORT

STATE OF MONTANA }
County of Lake } ss
Filed on the 6th day of Sept
A.D. 19 72 at 4:40 o'clock P M
PAUL M. HARDING
County Clerk and Recorder
By Judith M. Meyers
Deputy

File No. ..... GW 4 T 25N R 18W 23

County Lake

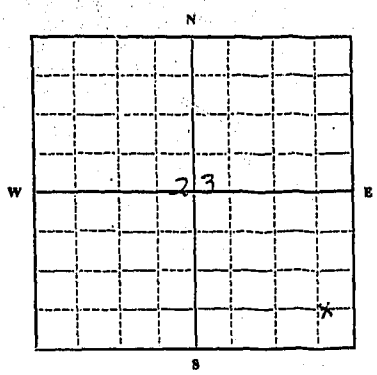
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED SEP 24 1963 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

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



SE ¼ SE¼ Sec. 23 T. 25N R. 18W

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 at Swan Lake Guard Station

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: May 24, 1959

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: One quarter acre lawn at site of well owned by the United States.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Water is drawn by a submersable pump--one well at the Swan Lake Guard Station-See Map for Location.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: April 1959 to May 24, 1959

8. The depth of water table: One hundred twenty 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: None

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

11. The log of formations encountered in the drilling of each well if available: Water vein struck at 35', 70' and 116'. Ground formation was clay & rocks except where water was found at which points a sand and gravel strata was encountered.

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: Ernest H. Dillard Ass't Ranger

Date: 7/19/63

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.

6033.

K 239

161245

Water Report

U S Forest Service

to

The Public

STATE OF MONTANA }
County of Lake, } ss

Filed on the 20 day of Sept.

A. D. 1963 at 11:50 o'clock A M

HAZEL KINNICK

County Clerk and Recorder

By E. Cowman

Deputy

2 00

GW 2

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

File No.....

T. 25 R. 18W

DUPLICATE

County LAKE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED JAN 8 1963 STATE ENGINEER

Top of Ground

(Elev. above sea level 3100)

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top soil, sand and silt

Owner [redacted] Address [redacted]

Driller Hudson Drilling Co. Address Swan Lake, Mont.

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

Date well started 4/16/62 Date Completed 4/20/62

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

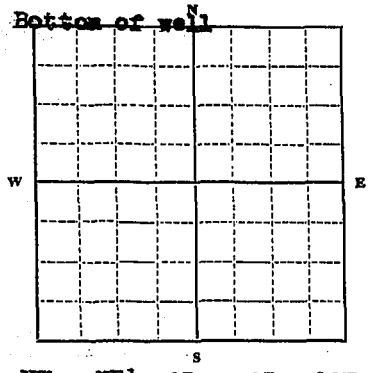
Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Stock ☐

☞ 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.

19' Gravel and sand to the bottom of 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	6 5/8 OD	0	26	Slots 3/16 x 4 ft.	22ft.	25ft.

26' Bottom of well



NW ¼ NE ¼ Sec. 23 T. 25 R. 18W

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 4½ feet.

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

Pumping Water Level 12 feet at 35 gal. per minute.

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

How Tested Pump Length of Test 16 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).....

103
Driller's License Number

Robert Hudson
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.

3201

R137 158082

STATE OF MONTANA }
County of Lake, } ss

Filed on the 7 day of Jan
A. D. 19 63 at 9:00 o'clock A M

HAZEL KINNICK
County Clerk and Recorder

By E Cummins
Deputy

GW 3

Approved Stock Form—State Publishing Co., Helena, Montana—4262

File No.....

T. 25N R. 18W MPM 24

DUPLICATE

County Lake

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAR 8 - 1965
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1950

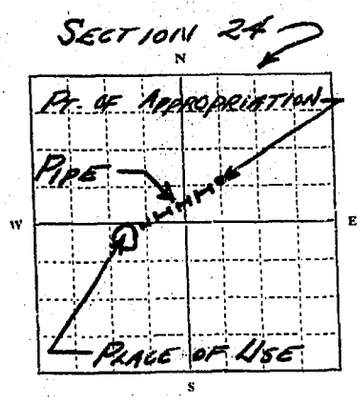
Owner Wesley I. Jolin Address Box 124, Swan Lake

Contractor (if any) None

Address of Contractor NA

Date Started Unknown Date Completed Unknown

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Rising water of spring is collected in an earthen pool then transported via about 2000 feet of 2" and 1" galvanized iron pipe to house, barnyard and garden. (Gravity diversion)



~~NE ¼ of~~ Sec. 24 T25N R. 18W MPM

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

About 5 acres of lawn and garden served by flooding at assumed duty of 1 cubic foot per second per 60 acres is 0.08 cfs

Water also serves up to 10 people in a fully plumbed house, about 100 head of cattle, horses and milk cows, chickens, geese, and miscellaneous use in cars, etc. Total use estimated 0.1 cfs

Signature of Owner Wesley I Jolin

Date

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

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

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

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

38999

R-984 169420

Water appropriation

Wesley J. Colin

to

The Public

STATE OF MONTANA } ss
County of Lake

Filed on the 4 day of March

A.D. 1965 at 10:05 o'clock A. M

County Clerk and Recorder

By Mae Johnson
Deputy

$2.00

GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
MAR 9 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

25N-18W 26
County Lake

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 State Highway Dept.

Address Helena Mont
Highway Shop - Hwy
Swan Lake, Mont

Date well started Mar. 15-71

completed Mar. 6-71

Type of well Drilled
(Dug, driven, bored or drilled) R.J.B.

Equipment used K
(Churn drill, rotary or other)

For Administrator's Use
File R-1328, 202596
March 8, 1972 11:00 a.m.
GW 1

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

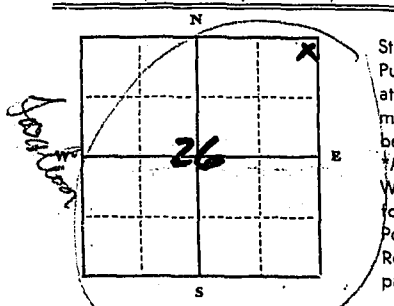
Industrial ☐ Drainage ☐ Other ☒* Garden/Lawn ☐

*Describe Highway Maint. Garage — Washing Equipment

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 20,000 gal.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
5 5/8	6 5/8 OD 17 lb per ft	0	134	none		



NE 1/4 NE 1/4 Sec. 26
T. 25 N R. 18 E/W

Static water level Flowing ft.*
Pumping water level 80 ft.*
at 6 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Bailer and air
for ..... hours.
Power ..... Pump Surging
Remarks: (Gravel packing, cementing, packers, type of shutoff) None

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

Driller's Signature Robert Hudson

Driller's Address Swan Lake Mont.

Robert Hudson LICENSE NO. 103

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) 3300

From (Feet)	To (Feet)	
		First 40 feet not lost as to formation as it had been drilled previously and the hole was caved out some with sand and not enough to measure
40	90	clay and sand rock
90	110	yellow clay and sand
110	130	clay yellow
130	134	water bearing sand
		Flows 4 gal per min at ground level

134 Show exact depth of bottom

(1) Open motor

50,010

R- 1328

#202596

STATE OF MONTANA
HIGHWAY DEPT.

TO

THE PUBLIC

STATE OF MONTANA } ss
County of Lake
Filed on the 8 day of March
A.D. 1972 at 11:00 o'clock a M
ETHEL M. HARDING
County Clerk and Recorder
by Jewell Bent Deputy

FORREST H. ANDERSON
GOVERNOR

MONTANA HIGHWAY COMMISSION

HELENA, MONTANA 59601

April 13, 1972

H. J. ANDERSON
DIRECTOR OF HIGHWAYS
IN REPLY REFER TO:

Swan Lake Well
90-DDG

RECEIVED
APR 13 1972

Department of Natural Resources
and Conservation
Water Resources Division

STATE OF MONTANA
County of Lake } ss
Filed on the 20 day of April A.D. 1972 at 11:20 o'clock A.M.
THELMA HARDING
County Clerk and Recorder
By Donald Brown Deputy

FORREST H. ANDERSON
GOVERNOR

MONTANA HIGHWAY COMMISSION

HELENA, MONTANA 59601

April 13, 1972

[redacted]
H. J. ANDERSON
DIRECTOR OF HIGHWAYS
IN REPLY REFER TO:

Department of Natural Resources
and Conservation
Water Resources Division
Engineering Bureau
Groundwater Division
Sam W. Mitchell Building
Helena, Montana 59601

RECEIVED
APR 13 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

Swan Lake Well
90-DDG

Gentlemen:

The well reported in the attached log is capped.

This well flowed at the rate of four gallons per minute, but when pumped at the rate of six gallons a minute the water level was lowered to 80 feet.

We trust this will complete the information you require.

Yours very truly,

H. J. Anderson
Director of Highways

Donald D. Gruel, P.E.
Administrator-Maintenance

DDG/FWT:mw

Attachment

cc: W. J. Hebert, Chief-F.M.B., Kalispell

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

NE¼ NE¼ Sec. 26
T. 21 N R. 18 E/W

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

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County [illegible]

MAR [illegible]

MONTANA 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 State Highway Dept.

Address Helena Mont
Highway Storage Shed
Swan Lake Mont

Date well started May 15-71

completed Jun 6-71

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

Equipment used Churn drill, rotary or other)

For Administrator's Use
File R-1328, 202596
March 8, 1972 11:00 a.m.
GW 1

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

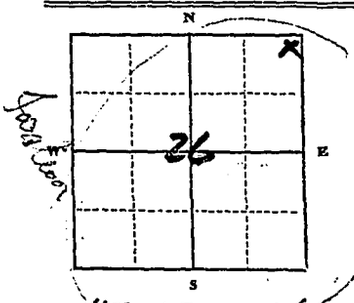
Industrial ☐ Drainage ☐ Other ☒* Garden/Lawn ☐

*Describe HIGHWAY MAINT. GARAGE - WASHING EQUIPMENT

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 20,000 gal.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
5 5/8	6 5/8 22 13 UAM FI	0	134	none		



NE ¼ NE ¼ Sec. 26
T. 27 N. R. 18 E W

Static water level Flowing ft.*
Pumping water level 80 ft.*
at 6 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Bailer
for hours. Main
Power Pump Burying
Remarks: (Gravel packing, cementing, packers, type of shutoff) none

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

Driller's Signature Robert Hudson

Driller's Address Swan Lake Mont

Robert Hudson LICENSE NO. 103

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) 3502

From (Feet)	To (Feet)	
		First 40 feet moist as to formation as it had been drilled previously and the hole was constant
		Some water and soil not enough to measure
40	90	clay and soil rock
90	110	yellow clay and gravel
110	150	clay yellow
150	134	water bearing gravel
		Flows 4 gal per min at ground level

134 Show exact depth of bottom

50,010

Form No. 18
8-60

26

T. 25N R. 18W

County Lake

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JAN 8 1962
STATE ENGINEER

WATER WELL LOG

Owner State of Montana Address Helena

Driller W. H. Albrecht Address

Date Started December 15, 1961 Date Completed Dec. 22, 1961

Location: Sec. 26 T. 25N R. 18W ¼ sec. SE¼

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

Water use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]
Industrial [X] Drainage [ ] Other

Casing: 0.0 ft. to 31.0 ft. Type Steel Pipe Size 4"

Casing: 31.0 ft. to 41.0 ft. Type " " Size 4 perf.

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 31.0 to ft. 41.0 . Ft. to ft.

Type of screen or perforations ¼" slits - 6" long

Static Water level, for non-flowing well: 3.7 feet.

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

Pumping water level 37.3 feet at 3½ gal. per min.

How tested: Bailed

Length of test One hour for measurement

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

Bailed approximately 12 hours to develop water inflow in tan silt

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0.0'	4.0'	Glacial gravel and brown silt clay
4.0'	9.0'	Loose brown silt clay with some fine gravel
9.0'	15.0'	Compact gravelly clay with boulders & cobbles
15.0'	27.0'	Silty sand with traces of fine gravel
27.0'	61.0'	Tan silt with decreasing gravel content

(Elev. above sea level 3120')
Top of Ground
Glacial gravel & brown silt clay

4.0'
Loose brown silt clay with some fine gravel

9.0'
Compact gravelly clay with boulders and cobbles

15.0'

Silty sand with small gravel

27.0'

Tan silty sand

Fine gravel content decreasing

Water flow at 36.0 ft

End of Casing 41.0'

Hole drilled to 61.0'
Casing pulled back to 41.0 ft to point of inflow

61.0' Bottomed hole in tan silt, traces of fine gravel

MONTANA STATE BOARD OF HEALTH
Division of Environmental Sanitation
Helena, Montana
WELL DRILLER'S REPORT

Driller's Registration No. None

Driller W. H. Albrecht Address Helena

Owner of Well State of Montana

Exact Location of Well SE¼ of Section 26, T 25N, R 18W

Nearest Post Office Swan Lake County Lake

Water to be Used for Household & Industrial

Drilling Begun December 15 Well Finished Dec. 22, 1961

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.

Casing Record

Size of Pipe	Kind and Weight of Material Used	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
4"	Steel Standard	0.0'	31.0'	¼ x 6" slits	31.0'	41.0'

Describe the type of joints in casing Steel Couplings

Describe any screens used ¼" x 6" torch cut slits

Capacity of Well 3½ gallons per minute
(In Gallons or Barrels)

How Determined 4" Bailer
(Pump, Bailer, Weir, Etc)

Signed C. E. Clement

Date December 27, 1961

ORIGINAL — TO BE SENT TO THE STATE BOARD OF HEALTH

Show exact depth of bottom.

P-76

153066

Water well log

State of Montana

to

The Public

STATE OF MONTANA }
County of Lake, } ss

Filed on the 5 day of Jan

A. D. 1962 at 9:00 o'clock A.M

HAZEL KINNICK

County Clerk and Recorder

By Roberta Moran

Deputy

V 3 Approved Stock Form—State Publishing Co., Helena, Montana—39089

36

File No. ..... T. 25N R. 18W

DUPLICATE County LAKE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 27 1963
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

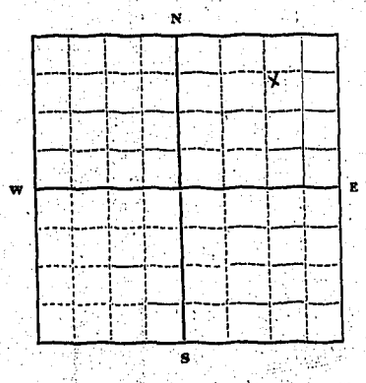
Date of Appropriation of Groundwater September 15, 1961

Owner G. B. Redd and Leta Redd Address Swan Lake, Montana

Contractor (if any) NONE

Address of Contractor NOT APPLICABLE

Date Started Sept. 1, 1963 Date Completed Sept. 15, 1963



W½NE¼NE¼ Sec. 36 T. 25N R. 18W

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

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. excavation to depth of 4 feet to uncover underground stream and water is now being withdrawn from such source by means of a pipe operating with a siphon.

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 25 gal. a minute; domestic and stock use; use is constant; use is through 1 inch pipe.

G. B. Redd

Signature of Owner Leta Redd

Date December 11, 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.

13467

R-453

162734

Water Report

G.B.& Lete Redd

to

The Public

STATE OF MONTANA
County of Lake.
Filed on the 26 day of Dec
A. D. 1963 at 9:06 o'clock A.M
HAZEL KINNICK
County Clerk and Recorder
By S. Clewman
Deputy

$2.00

GROUNDWATER INDEX

County Lake Twp. 24 N. Rge. 22 W.

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
10	Proud, Daryl	GW 3	161322	
13	Smith, Harry O & Phyllis	GW 4	163120	
14	Jensen, Donald	GW 2	181948	
14	Proud, Frankie J. & Daryl	GW 2	191941	
19	Proud, Frankie	GW 3	162032	
23	Muller, Robert E.	GW 2	195149	
27	Swope, Clarence & Anita	GW 2	205427	

W 3

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

File No.....

T. 24 R. 22

DUPLICATE

County Lake

RECEIVED
OCT 4 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 1940

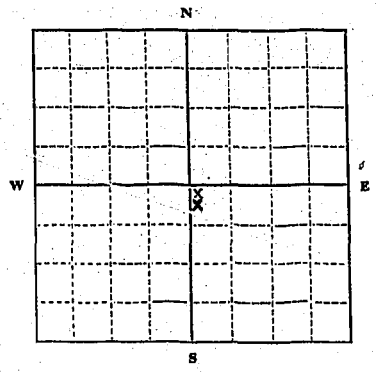
Owner R. D. Pond Address Dayton, Mont.

Contractor (if any) .....

Address of Contractor .....

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

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. They are natural springs & we piped them into watering tanks



NW¼NW¼SE¼ Sec. 10 T. 24 R. 22

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. The quantity of water varies from year to year & some times the lower spring doesn't run. They are generally used in the spring & fall of the year.

Signature of Owner Daryl Pond

Date Sept 30, 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.

6194

R-246

16-1323

Water Report

Daryl Proud

to

The Public

STATE OF MONTANA }
County of Lake, } ss.
Filed on the 30 day of Sept
A. D. 1963 at 11:00 o'clock A M
HAZEL KINNICK
County Clerk and Recorder
By M. Maus
$2.00 Deputy

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

File No. _____

T 24 N R 22 W

DUPLICATE

County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964
STATE ENGINEER

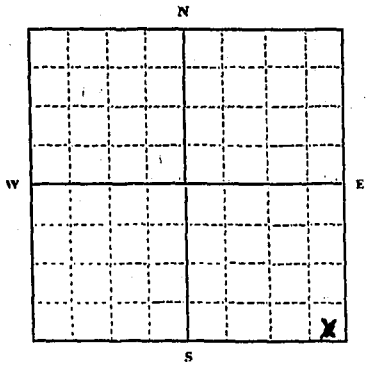
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Harry O. & Phyllis M. Smith, of Polson Mont
(Name of Appropriator) (Address) (Town)

County of Lake State of Montana

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



SE¼ SE ¼ SE¼ Sec. 13 T 24 R. 22

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 1958 - Estimated

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 Not used for irrigation

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater About 1958 and used since

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 by impoundment

10. The estimated amount of groundwater withdrawn each year 960 000 gal

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

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

Signature of Owner Harry O. Smith / Phyllis M. Smith

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.

24275

R-174 163120

C.

STATE OF MONTANA }
County of Lake, } ss.
Filed on the 21 day of Dec
A. D. 1963 at 2:40 o'clock PM
[illegible]
County Clerk and Recorder

By _____
Deputy

GW 2

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

File No.....

MONTANA WATER RESOURCES BOARD
RECEIVED
NOV 13 1967

T. 24N R. 22W

DUPLICATE

County Lake

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level Approx. 3070')

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Donald Jensen Address Elmo, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 6/30/67 Date completed 7/21/67

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

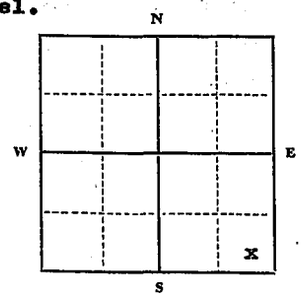
Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐

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.

Formations Log:

0 - 1 Black dirt & gravel.
1 - 32 Gravel & cobblestones imbedded in tan clay.
32 - 109 Boulders & cobblestones imbedded in tan clay.
109 - 111 Boulder.
111 - 130½ Gravel & cobblestones imbedded in tan clay.
130½-133 Boulder.
133 - 165 Cemented gravel and boulders.
165 - 171 Clean dry sand and gravel.
171 - 182 Gravel imbedded in tan clay.
182 - 195 Cemented sand & gravel. Some tan clay. Seeps of water.
195 - 209 Gravel & cobblestones imbedded in tan clay.
209 - 222 Tan sandy clay and gravel. Seeps of water.
222 - 235 Sand and gravel. Water

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 ¼"	+1½"	235'	NONE		



Static Water Level for non-flowing well 163' feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 209 feet at 25 gal. per minute.

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

How Tested Pump test

Length of Test Eight hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entaring well is coming through the open bottom of six inch casing. Wells with open bottom completions in this area can be depended upon to produce clear sand free water year after year as long as they are not overpumped, i.e., they (Continue on reverse side)

Water rises in the well 163' from surface.

SE¼ Sec. 14 T24N R. 22W

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

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).

Stock well

Show exact depth of bottom.

Bottom of hole 235'

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.

52
Driller's License Number

William E. Osborne
Driller's Signature.

42,519

R-1095
18-19-48
Well Report
Donald Jensen
to
The Public

STATE OF MONTANA } ss
County of Lake }
Filed on the 10 day of May
A.D. 1948 at 2:10 o'clock P.M.
ETHEL M. HARDING
County Clerk and Recorder
By Caroline Carlson
Deputy

should be pumped at rates less than 25 to 50 percent of the tested capacity of the aquifer.

File No. _____ MONTANA WATER RESOURCES BOARD GW-2

RECEIVED

JAN 13 1970

T. 24 R. 22

County Lake

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 2742)

6" Top soil
Gravel, Cobbles
Boulders
125 ft
Rock
315 ft.
Lignite

Owner Donald Brown Address Ronan, Mont

Driller Homer McCarty Address 945 5th St W

Date of Notice of Appropriation of Groundwater _____

Date well started Nov 5 1969 Date Completed Dec 7 1969

Type of well Drilled (dug, driven, bored or drilled) Equipment Used Ed W Lagge Drill (Churn, drill, rotary or other)

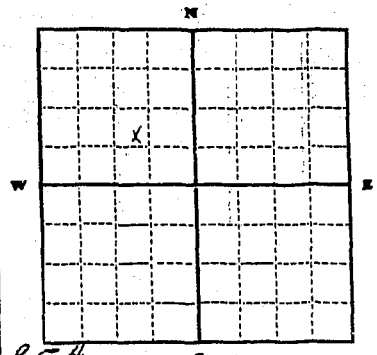
Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Stock ☒

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.

Doc. No. 191941
Filed for record
this 12 day of January
A. D. 19 70, at _____
o'clock _____ M.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
7 in	23		126			

Water



SE4 NW4 1/4 Sec. 14 T. 24 R. 22

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

Show exact depth of bottom.

Static Water Level for non-flowing Well _____ feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 450 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Bailer 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)

18
Driller's License Number

Homer McCarty
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.

46039

[redacted]

[redacted]

[redacted]

Water

Static Water Level for non-flowing Well 335 feet.

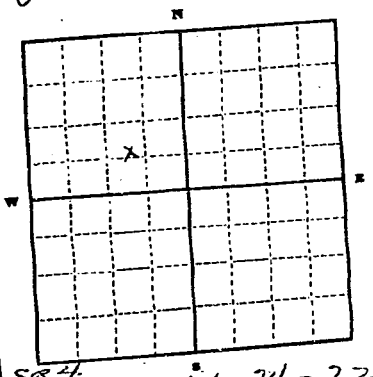
Shut-in Pressure for Flowing Well

Pumping Water Level 400 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Bailer 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)



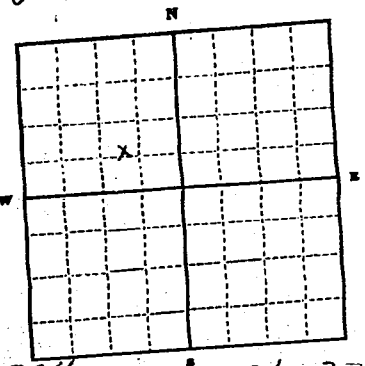
SE 4 ¼ Sec. 1d T 24 R 22

Drill in location of well and

[redacted]

[redacted]

Water



Static Water Level for non-flowing Well 335 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 400 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Bailer 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)

SE 4 ¼ Sec. 10 T 24 R 22

MONTANA WATER RESOURCES BOARD GW 2
RECEIVED
JAN 13 1970

T.____ R.____
County Lake

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground
(Elev. above sea level 2980)

6" Top soil
Gravel, cobbles
boulders
125 ft
rock
315 ft.
Sugage

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Darryl Broud Address Dayton, Mont
Driller Homer McClarty Address 945 - 8th Ave N

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

Date well started Nov 5, 1969 Date Completed Jan 7/70

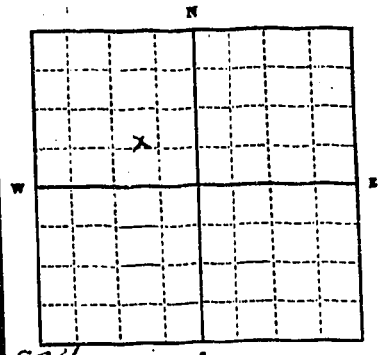
Type of well Drilled (dug, driven, bored or drilled) Equipment Used 22 W Bucyrus Erie (Churn, drill, rotary or other)

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" OD	23#		126			

Water



Static Water Level for non-flowing Well 335 feet.

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

Pumping Water Level 400 feet at 10 gal. per minute.

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

How Tested Bailer 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).....

SE 4 ~~SW 4~~ ¼ Sec 10 T 24 R 22 ~~N10~~
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

479 ft.
Show exact depth of bottom.

18
Driller's License Number

Homer McClarty
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.

STATE OF MONTANA

County of Lake } ss.

Daryl Proud having first been duly sworn, depose s and say s that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

Daryl Proud

Subscribed and sworn to before me, this 9 day of January 19 70

Edith M Halling

Notary Public for the State of Montana.

Residing at Polson Montana

My Commission expires 9-10 19 71

STATE OF MONT.
COUNTY OF LAKE

Filed on the 12 day of January A.D. 1970
Ethel M. Harding
County Clerk and Recorder

Jewell Beck
Deputy

$2.00

DARYL PROUD
to
THE PUBLIC
WELL REPORT

No. 1181

191941

GW 3

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

File No.....

T. 24 N R. 22 W

DUPLICATE

County Lake

SW

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 27 1963
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 11/18/63

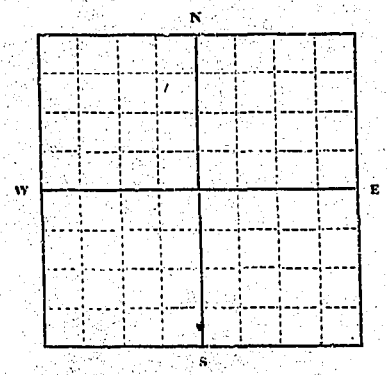
Owner Frankie Bouch Address Dayton, Mont.

Contractor (if any) none

Address of Contractor none

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

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



SE ¼ SW Sec. 19 T. 24 R. 22

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

continued use for stock.

Signature of Owner.....

Date.....

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

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

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

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

7552

R292

162032

Water Appropriation

John & Barbara Beaver

to

The Public

STATE OF MONTANA }
County of Lake, } ss

Filed on the 18 day of Nov

A. D. 196 3 at 1:00 o'clock P. M.

HAZEL KINNICK

County Clerk and Recorder

By G. Conman

Deputy

2.00

GW 2

MONTANA WATER RESOURCES BOARD

Approved Stock Form—State Publishing Co., Helena, Montana—42329

File No.....

T. 24 N R. 22 W

DUPLICATE

County Lake

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)

LOG

Top of Ground

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

0-2 Soil

2-60 Clay

60-70- Quick Sand

70-80 Clay - Blue

80-90 Quick Sand

90-110 Clay

110-140 Quick Sand

140-180 Clay

180-210 Clay - Mud

210-250 Mud - Sandy

250-270 Blue - (sticky)

270-305 Quick Sand

305-308 Sand - (water)

Show exact depth of bottom.

Owner Robert E. Mullen Address Niarada, Mont.

Driller O'Keefe Drilling Address Butte

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

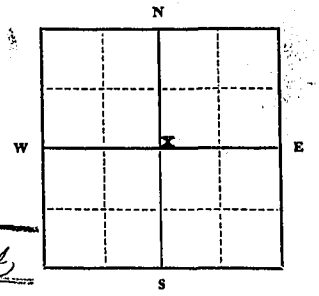
Date well started..... Date completed June 27, 1968

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 5/8" .280 Wall 18.97 #/Ft.	+ 1	308'	1/8" x 6"		



Static Water Level for non-flowing well 43 feet.

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

Pumping Water Level 63 feet at 7 gal. per minute.

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

How Tested Pump

Length of Test 1 hour

Remarks: (Gravel packing, cementing, packers, type of shutoff) Put gravel filter in bottom of hole. Back filled from 308' back to 295'.

Doc. No. 195149
Filed for record this 8 day of August A. D. 19 70, at 11:53 o'clock A M.

SW¼SW¼NE Sec. 23 T. 24N. R22W.
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.

8
Driller's License Number

Emmett O'Keefe
Driller's Signature

47473

R-1229 195149

WELL REPORT

ROBERT E. MULLEN

TO THE PUBLIC

STATE OF MONTANA } ss
County of Lake

Filed on the 5th day of Aug
A.D. 1970 at 11:53 o'clock A M
Ethel M Harding
County Clerk and Recorder

By _____ Deputy

2.00

GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
SEP 5 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

24N-22W 27

County Lake

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 Clarence and Anita Swope

Address Box 1032

Polson, Montana

Date well started 5/25/71

completed 7/31/72

For Administrator's Use
File R-1375 205427
Sept. 1, 1972 - 9:01 a.m.
GW 1

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

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

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

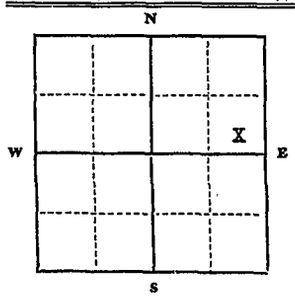
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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)
6	6 5/8 OD x 1/4	+ 1 1/2	123	NONE		
6	4 9/16 OD x 1 1/4	+ 1	514	Mills Knife	380	440



SE ¼ NE ¼ Sec. 27
T. 24 N R. 22 E
W

Static water level 193 ft.*
Pumping water level 378 ft.*
at 6 gallons per minute,
measured 90 minutes after pumping began.
*Measured from ground level.
Well developed by Air Surge
for 7 hours.
Power Diesel Pump 150 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 Liberty Drilling Co. Wm. F. Osborne

Driller's Address Route 2

Kalispell, Montana LICENSE NO. 52

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 Approx. 3450' (Elev. above sea level)

From (Feet)	To (Feet)	
0	23	Topsoil
2	61	Claybound gravel
61	112	Tan clay, Gravel and boulders
112	121	Tan clay
121	131	Boulders, some tan clay
131	142	Hard blue-gray rock
142	213	Light gray rock
213	242	Green rock
242	269	Gray and green rock in thin alternate layers. Seep of water.
269	278	Gray rock
278	287	Gray-green rock
287	394	Gray rock
394	415	Gray rock with white calcite seams'
415	468	Gray rock. Some water. Three gallons per minute
468	499	Gray rock with white calcite seams. Some water. Four gallons per minute
499	503	Green rock. Some water. Six gallons per minute total
503	514	Gray rock.

514 Show exact depth of bottom

Water rises in well to 193 feet from surface.

51,288

R-1375

#~~22~~ 205427

CLARENCE & ANITA
SWOPE

TO

THE PUBLIC

STATE OF MONTANA } ss
County of Lake

Filed on the 1 day of Sept
A.D. 19 72 at 9:00 o'clock a M
~~ETHEL M. HARDING~~
County Clerk and Recorder
By Jewell Beals Deputy

Well produced six gallons per minute on test. Static water level at completion of well was 193 feet test with an air lift pump. All water entering well is coming from cracks and seams in the rock from surface. Well cased from 1½ feet above surface to 123 feet with 6 5/8 inch OD by ¼ inch below 242 feet.

Casing Log:

Well cased from 1½ feet above surface to 123 feet with 6 5/8 inch OD by ¼ inch wall Black Steel Water Well Casing. A forged steel drive shoe is welded to the oepn bottom of the six inch casing. Well cased with 4 9/16 inch OD by ¼ inch wall Black Steel Water Well Casing from one foot above surface to 514 feet. A six inch rotary

OSBORNE, OWNER

LIBERTY DRILLING COMPANY

HIGHWAY 93 SOUTH
PH. 752-3474
KALISPELL, MONTANA 59901

MUNICIPAL
INDUSTRIAL
DOMESTIC
IRRIGATION
WELLS

LICENSED, BONDED AND INSURED

July 31, 1972

RECEIVED
SEP 5 1972
MONTANA DEPARTMENT OF NATURAL
RESOURCES AND CONSERVATION

Clarence and Anita Swope
Box 1032
Polson, Montana 59860

WELL LOG

Location: Stock well below Irvine Lookout Tower

Formations Log:

0 - 23	Topsoil
2 - 61	Claybound gravel
61 - 112	Tan clay. Gravel and boulders
112 - 121	Tan clay
121 - 131	Boulders, some tan clay
131 - 142	Hard blue-gray rock
142 - 213	Light gray rock
213 - 242	Green rock
242 - 269	Gray and green rock in thin alternate layers. Seep of water.
269 - 278	Gray rock
278 - 287	Gray-green rock
287 - 394	Gray rock
394 - 415	Gray rock with white calcite seams
415 - 468	Gray rock. Some water. Three gallons per minute total.
468 - 499	Gray rock with white clacite seams. Some water. Four gallons per min.
499 - 503	Green rock. Some water. Six gallons per minute total.
503 - 514	Gray rock

Water Log:

Well produced six gallons per minute of clear sand free water on an extended test with an air lift pump. Static water level at completion of well was 193 feet from surface. All water entering well is coming from cracks and seams in the rock below 242 feet.

Casing Log:

Well cased from $1\frac{1}{2}$ feet above surface to 123 feet with 6 5/8 inch OD by $\frac{1}{4}$ inch wall Black Steel Water Well Casing. A forged steel drive shoe is welded to the oepn bottom of the six inch casing. Well cased with 4 9/16 inch OD by $\frac{1}{4}$ inch wall Black Steel Water Well Casing from one foot above surface to 514 feet. A six inch rotary tri-cone bit is welded to the bottom of the four inch casing. The four inch casing was perforated at 380 feet; 400 feet; 420 feet and 440 feet with a Mills Knife. All water entering well is coming through these perforations.

NOTE: Formation information from 0 to 132 feet was taken from Mission Drilling Co.'s Log of Records.