GROUNDWATER INDEX

County Lincoln Twp. 31 North Rge. 30 West

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
14	W. R. Grace Co.	GW-2	842	
22	" "	GW-2	792	
22	Zonolite Company		61	
30	Sholoski, David L.	GW-2	885	
30	Nelson, Ruth N.	GW-2	577	
30		GW-2	578	
32	W. R. Grace Co.	GW-2	938	

-3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
FEB 7 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Lincoln

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 W.R. Grace Co.

Address Libby Mont.

Date well started 9-3-71

completed 9-23-71

For Administrator's Use
File 842 Feb. 3, 1972
10:15 a.m.
GW 1

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

Equipment used Churn (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

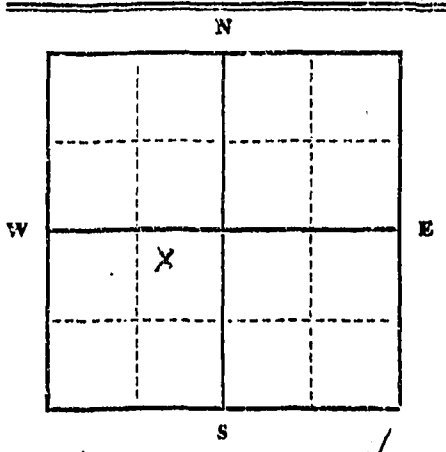
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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)
6	19	0	116	1/2 Round	0	51



NE 1/4 SW 1/4 Sec. 14
T. 31 N R. 30 ~~E~~ W

Static water level 30 ft.*
Pumping water level 90 ft.*
at 40 gallons per minute,
measured minutes after pumping began.
*Measured from ground level.
Well developed by bailing
for 4 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 Clifford J. Bruhn

Driller's Address Box 2
Libby Montana LICENSE NO. 141

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	22	Soil & Gravel
22	63	Clay & Boulders
63	92	Clay & Boulders Water 40 GPM
92	95	Sand & Water 40 GPM
95	125	Boulders & Sand Water 40 GPM
125	116	Water 40 GPM

116 Show exact depth of bottom

49,818

842

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 3rd day of February A. D. 1972 at 10:15 o'clock A. M.

Eugene L. Vaughn
County Clerk.

By Mae Watson
Deputy

GW 2 Revised 1969
STATE PUBLISHING COMPANY

County .....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner .....

Address .....

Date well started .....

completed .....

For Administrator's Use
File 792
August 23, 1971 11:00 AM
GW 1

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

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

Water Use: Domestic ☑ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe .....

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

ESTIMATED ANNUAL WITHDRAWAL .....

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6 3/4	19	0'	30'	1/2 Brass	0	1'

N
W E
S

Static water level ....18.... ft.*
Pumping water level ....20.... ft.*
at ....20.... gallons per minute,
measured ..... minutes after pumping began.
*Measured from ground level.
Well developed by .....
for ....2.... hours.
Power..... Pump..... HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) .....

SW ¼ NW ¼ Sec. 22
T. 31 N/S R. 30 E/W

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

Driller's Signature .....

Driller's Address .....

..... LICENSE NO. 191

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	18	[illegible]
18	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

34' Show exact depth of bottom

48925

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

MONTANA WATER RESOURCES BOARD
RECEIVED
AUG 23 1971

County ...

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 [illegible]

Address [illegible]

Date well started [illegible]

completed [illegible]

For Administrator's Use
File 792 August 23, 1971 11:00 AM
GW 1

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

Equipment used [illegible]
(Churn drill, rotary or other)

Water Use: Domestic ☑ Municipal ☐ Stock ☐ Irrigation ☐

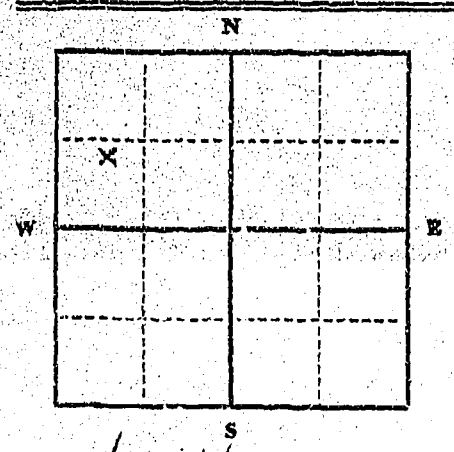
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe .....

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

ESTIMATED ANNUAL WITHDRAWAL .....

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6 5/8	19	0'	34'	1/2 Screen	0	4'



SW ¼ NW ¼ Sec. 22
T. 31 N R. 30 E
S W

Static water level 18 ft.*
Pumping water level 20 ft.*
at 20 gallons per minute,
measured ..... minutes after pumping began.
*Measured from ground level.
Well developed by [illegible]
for 2 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 [illegible]

Driller's Address [illegible]

[illegible] LICENSE NO. 171
39923

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	18	[illegible]
18	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

34' Show exact depth of bottom

48925

#792

STATE OF MONTANA
COUNTY OF LINCOLN
Filed this 23rd
August A.D. 71
at 11:00 A.M.
Eleanor L. Vaughn
County Clerk.
By Betty Stinchcomb
Deputy

GV

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

File No.....

T. 31 N. R. 30 n. M.P.M.

DUPLICATE

County Lincoln

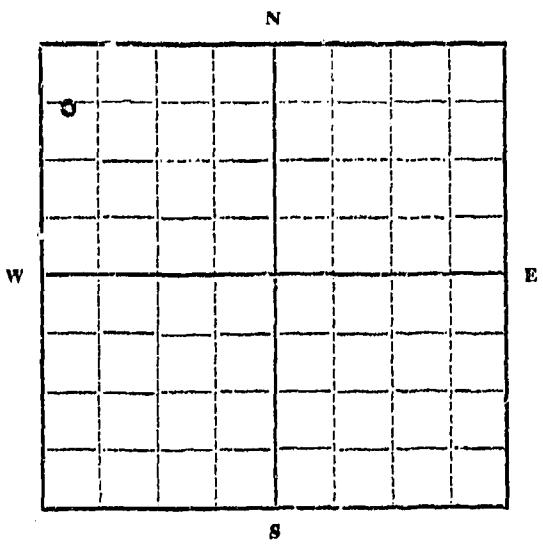
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Zonolite Company (Name of Appropriator), of 607 Mineral Ave. (Address) Libby (Town)
County of Lincoln State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



N W¼ NW¼ Sec. 22 T31 NR 30 W

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 Sanitary water supply for drinking, fire protection, etc, for mill uses.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1936

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 35 gpm

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof 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 natural spring flowing to cement basin and pump inlet

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1936 (approx.)

8. The depth of water table Flowing well

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 20' x 40' concrete basin to catch water flowing from spring.

10. The estimated amount of groundwater withdrawn each year 15,768,000 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 Water right filed Apr. 30, 1940 Book 73 Page 188 covering. This spring flow as well as water from creek. Spring occurs on Vermiculite No. 2 placer Mining claim, patented.

ZONOLITE COMPANY

Signature of Owner by: Raymond J. Kujawa

Date March 21, 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.

4048

61

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 25th day of
March A. D. 19 63
at 3:15 P. M.
M. H. Mansfield
County Clerk.
By Mae Olson
Deputy

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
JUL 17 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Lincoln

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 David L. Sokoloski

Address Highway #37, North
Libby, Montana 59923

Date well started June 6, 1972
completed June 7, 1972

For Administrator's Use
File #885
July 14, 1972 1:50 p.m.
GW 1

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

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

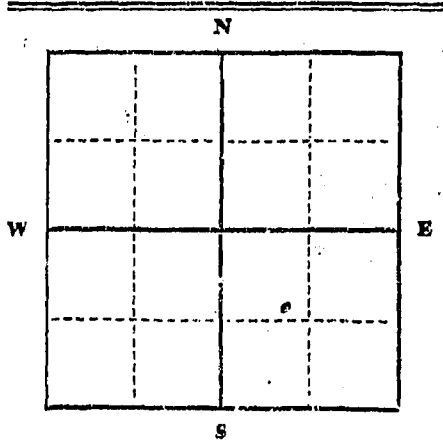
Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL 100,000 gal. per Year

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6" I.D.	6 5/8" O. D. 17.00 lbs. per ft.	0	35	None		



NW ¼ SE ¼ Sec. 30
T. 31 N R. 30 E/W

Static water level 20 ft.*
Pumping water level ft.*
at est. 30 gallons per minute, measured minutes after pumping began.
*Measured from ground level.
Well developed by air compressor 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 Verne D. Lake

Driller's Address P. O. Box 967
Libby, Montana 59923 LICENSE NO. 152

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~~	~~8~~	~~Topsoil and Sand.~~
~~8~~	~~20~~	~~Sand and Gravel.~~
~~20~~	~~35~~	~~Sand, Gravel with Water.~~

35 ft. Show exact depth of bottom

50,939

#885

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 14th day of
July A. D. 1972
at 1:50 P. M.
Eleanor L. Vaughn
County Clerk.
By Verda L. Hughes
Deputy

GW-3 Well #1

Approved Stock Form—State Publishing Co., Helena, Montana—404. 30

File No.....

T. 31 R. 30

DUPLICATE

STATE WATER CONSERVATION BOARD

County Lincoln

APR 10 1967

Bille... McDerm...
Butte... McRoby...
Co... Polson...
Dar... ...
Havre...

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

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

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

0'-1' Topsoil.
1'-13' Sandy silt.
13'-19' Sand and gravel.
19'-25' Sandy clay.
25'-31' Sand, gravel, with water.
31'-38' Boulders and water.
38'-43' Solid rock.

Owner Reed N. Nelson & Erin Nelson Address Libby, Mont.

Driller William D. Lake Address Libby, Mont.

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

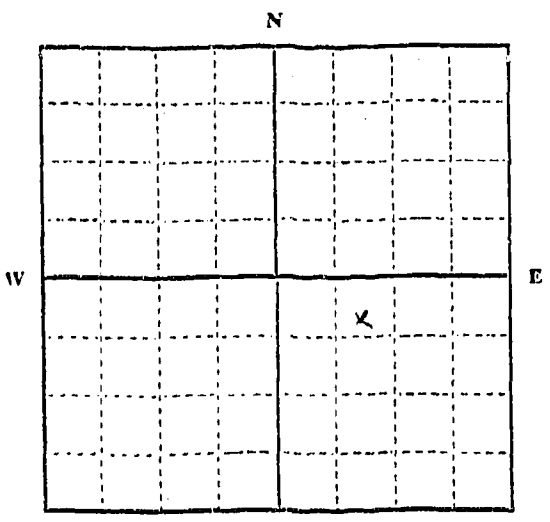
Date well started Oct. 4, 1966 Date Completed Oct. 7, 1966

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)
6" I.D.	6 5/8" O.D. 18.97 lbs. per foot.	0'	43'	24 3/8"x2"	26'	30'



.....1/4..... Sec. 30 T. 31 R. 30

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

Static Water Level for non-flowing Well 17 feet.

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

Pumping Water Level 20 feet at 30 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).....

Show exact depth of bottom.

152
Driller's License Number

Wm D Lake
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.

41849

577

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 22nd day of March A. D. 1967
at 3:10 P. M.
Eleanor L. Vaughan County Clerk.
By Mae Watson Deputy

GW 2 Well #2

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

File No. .....

STATE WATER CONSERVATION BOARD

APR 10 1967

T. 31 R. 30

County Lincoln

DUPLICATE

Bills ..... McDermott .....
Bud ..... McNally .....
Coyle ..... Morton .....
Darlington ..... Sullivan .....
Dickert .....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

0'-1' Topsoil.
1'-12' Sandy silt.
12'-18' Sand, fine gravel.
18'-25' Sandy clay.
25'-30' Gravel and water.
30'-37' Boulders and water.
37'-41' Solid rock.

Owner Evan Nelson / Ruth M. Nelson Address Libby, Mont.

Driller William O. Lake Address Libby, Mont.

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

Date well started Sept. 29, 1966 Date Completed Oct. 4, 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)
6" O.D.	6⅝" O.D. 18.97 lbs. per foot	0'	41'	none		

N
W E
S

.....¼..... Sec. 30 T. 31 R. 30

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

Static Water Level for non-flowing Well 16 feet.

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

Pumping Water Level 22 feet at 40 gal. per minute.

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

How Tested Compressor 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) .....

Show exact depth of bottom.

152
Driller's License Number

Wm O Lake
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.

41850

578

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 22nd day of
March A. D. 19 67
at 3:15 P. M.
Eleanor L. Vaught
County Clerk.
By Mae Watson
Deputy

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Lincoln

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

RECEIVED
APR 10 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

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 W. R. Grace Co., Zonolite, Div.

Address Libby, Montana 59923

For Administrator's Use
File 938
April 6, 1973
GW 1 9:30 A.M.

Date well started 2-7-73

completed 2-21-73

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

Equipment used Churn
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

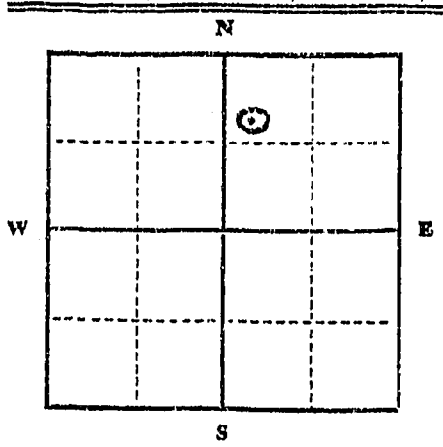
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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)
6 5/8"	6 5/8" 17#	~~0~~ 1	57	#60 slot Screen	55	65



Static water level 26.5 ft.*
Pumping water level 30 ft.*
at 30 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by air
for 8 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)
Casing pulled back to 56'
10' #60 slot screen from 55 to 65' with 8' tail piece to 73' — 73' to 76' plugged

NW¼ NE¼ Sec. 32
T. 31 N R. 32 E W

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

Driller's Signature Clifford J. Bushler

Driller's Address G & L Plumbing & Heating, Inc.
Box L, Libby, Montana 59923 LICENSE NO. 141

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	15	Top Soil & Boulders
15	25	Yellow clay & gravel
25	40	Yellow Sandy clay
40	50	Small Gravel & sand
50	60	Large Gravel (water)
60	70	Pea Gravel & sand
70	75	Fine Sand
75	76	Blue Clay

73' Show exact depth of bottom

52,857

938

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 6 day of April A. D. 19 72.

at 9:30 A. M.

Clement L. Vaughn
County Clerk.

By Mae Watson
Deputy

GROUNDWATER INDEX

County Lincoln Twp. 31 North Rge. 22 West

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
33	U.S.A. Army Corps			
	of Engineers	GW-2	701	
33	Halverson-Mason	GW-2	886	

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—423. 3

File No.....

T. 31 N. R. 29 W. M.P.M.

DUPLICATE

County LINCOLN

Libby Reservoir Project
LOG R.E. Facilities

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)

MONTANA WATER RESOURCES BOARD
RECEIVED
AUG 21 1969

Owner UNITED STATES OF AMERICA, by & through Department of Army Seattle Dist. Corps of Engineers. Address 1519 Alaskan Way So. Seattle, Wash. 98134

Driller C & L Plumbing & Heating Address Box L Libby, Montana 59923

Date of Notice of appropriation of groundwater - -

Date well started 9-6-66 Date completed 11-23-66

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 ☐

Top of Ground

(Elev. above sea level 2138)

Silty Sand.

Fine Silty Sand.

Large Boulder.

Fine Silty Sand.

Bedrock.

Broken Bedrock.

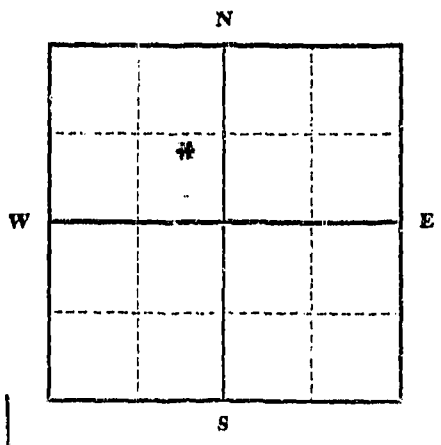
Bottom of Hole 65'

Screen Set Depth 48' to 58'

Show exact depth of bottom.

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8 in.	17 lbs.	0	53'			



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

NW ¼ Sec. 33 T. 31N R. 29W

Static Water Level for non-flowing well 18' 10" feet.

Shut-in Pressure for Flowing Well - -

Pumping Water Level 28' feet at 120' gal. per minute.

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

How Tested Pumped

Length of Test 48 hours.

Remarks: (Gravel packing, cementing, packers, type of shutoff) Screen 60 slot, 8" Dia. Stainless Steel 10' long.

(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).

Water Supply for Residency and Visitors Facilities. Also operation of the powerhouse.

This Notice of Completion is given for the purpose of correcting Range 28 W., MPM, to Range 29 W., MPM, shown in Notice of Completion dated 5 Nov 1968, recorded 12 Nov 1968 as File No. 668.

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.

141
Driller's License Number

Driller's Signature

Owner: United States of America

By M. M. Christiansen
M. M. CHRISTIANSEN
Chief, Acquisition Branch, Real Estate Division
Seattle District, Corps of Engineers

1 AUG 1969

INDEXED 701

STATE OF MONTANA
COUNTY OF LINCOLN

Filed on the 18th day of
August A. D. 19 69
at 11:10 o'clock A. M.
Eleanor L. Vaughn
County Clerk.
By Mae Watson
Deputy

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Lincoln

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 227 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 Halvorson-Mason Corp.

Address 141 [illegible]

Libby, Montana 59923

Date well started June 5, 1972

completed June 6, 1972

For Administrator's Use
File #886
July 19, 1972 11:20 am
GW 1

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

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

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

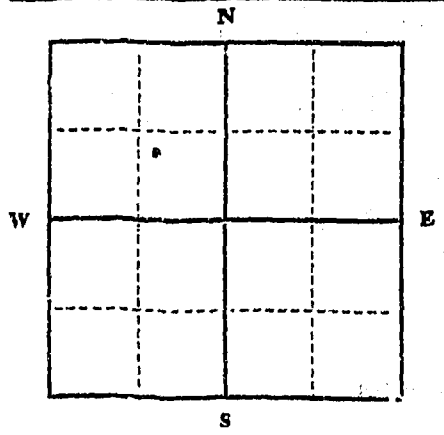
Industrial ☐ Drainage ☐ Other ☒* Garden/Lawn ☐

*Describe Water for offices and Construction Site.

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 200,000 Gal. per year

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6" I.D.	5 5/8" O.D. 27.00 lbs. per ft.	0	40	None		



NW ¼ SW ¼ Sec 33
T. 31 (N) S R. 29 E (W)

Static water level 20 ft.*
Pumping water level ft.*
at est. 40 gallons per minute, measured minutes after pumping began.
*Measured from ground level.
Well developed by Air Compressor for 1 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

R.J.D.

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

Driller's Signature Wm. E. Fake

Driller's Address P. O. Box 967

Libby, Montana 59923 LICENSE NO. 159

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	Fill.
20	35	Clay, Sand and Gravel.
35	40	Sand, Gravel and Water.

40 ft. Show exact depth bottom

50,966

#886

INDEXED

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 19th day of July A. D. 1972 at 11:20 A. M.

Eleanor L. Vaughn
County Clerk.

By Betty Stoneberger
Deputy

GROUNDWATER INDEX

County Lincoln Twp. 31 North Rge. 28 West

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
33	U.S.A. Army Corps of Engineers	GW-2	668	

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—48557 3

MONTANA WATER RESOURCES BOARD
RECEIVED
DEC 12 1966

File No.....

T. 31 N R. 28 W.M.P.M.

DUPLICATE

County LINCOLN.

Libby Reservoir Project.
LOG R.E. Facilities.

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 UNITED STATES OF AMERICA, by & through Department of Army Seattle Dist. Corps of Engineers. Address 1519 Alaskan Way S. Seattle, Wash. 98134

Driller C. & L. Plumbing & Heating. Address Box L Libby, Montana. 59923

Date of Notice of appropriation of groundwater ---

Date well started 9-6-66 Date completed 11-23-66

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)
8 in.	17 lbs.	0	53'			

Top of Ground

(Elev. above sea level 2138)

5 Silty Sand.

10

15

20 Fine Silty Sand.

25

30

35 Large Boulder.

40 Fine Silty Sand.

45 Bedrock.

50 Broken Bedrock.

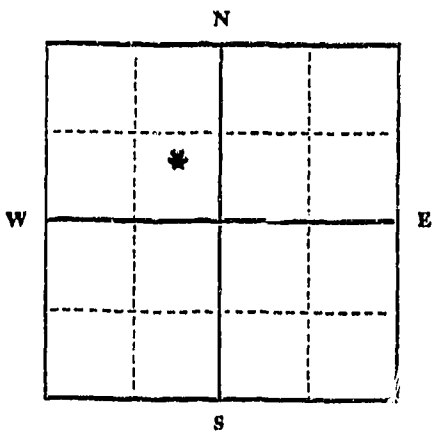
55

60

65 Bottom of Hole 65'

Screen Set Depth 48' to 58'

Show exact depth of bottom.



SE¼ NW¼ Sec. 33 T. 31N R. 28W

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

Static Water Level for non-flowing well 18' 10" feet.

Shut-in Pressure for Flowing Well ---

Pumping Water Level 28' feet at 120' gal. per minute.

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

How Tested Pumped

Length of Test 48 hours.

Remarks: (Gravel packing, cementing, packers, type of shutoff) Screen 60 slot, 8" Dia. Stainless Steel 10' Long.

(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).

Water Supply for Residency and Visitors Facilities. Also operation of the powerhouse.

141
Driller's License Number

Clifford L. Ruder
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, tissue copy to be retained by driller.

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

Owner: UNITED STATES OF AMERICA By M. M. Christiansen
M. M. CHRISTIANSEN, Chief, Acquisition Branch, Real Estate Division, Seattle District, Corps of Engineers

5 NOV 1968

44,848

668

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 12th day of
November A. D. 19 68
at 11:25 A. M.
Eleanor L. Vaughn
County Clerk.
by Mae Hakson
Deputy

GROUNDWATER INDEX

County Lincoln Twp. 30 North Rge. 33 West

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
4	Brack, Donald E.	GW-2	670	
4	" "	GW-2	818	
4	" "	GW-1		SAME FORM
5	" "	GW-1		
8	Perkins-Edwards, Dorothy	GW-2	301	
9	Lyle, Faye & Eugene	GW-2	790	
19	Burnham, Charles R.		80	
32	Neisess, Joe	GW-2	972	

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4855 3

File No.....

T. 30 R. 33

DUPLICATE

County Lincoln

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 1980)
(approximate)

6 feet clay
6 feet water

Show exact depth of bottom.

Owner Donald C. Brock Address Troy, Montana

Driller same Address same

Date of Notice of appropriation of groundwater August 21, 1968

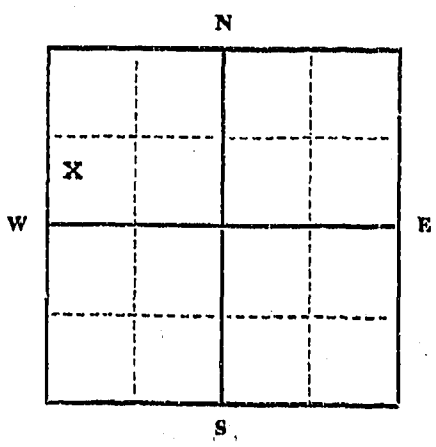
Date well started August 21, 1968 Date completed August 29, 1968

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

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

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)
3 feet	8 foot long 3 foot corrugated galvanized culvert	0	6	1 inch on 12 inch centers	5 (from top of casing)	8



SW 1/4 NW 1/4 ~~SW 1/4 NW~~ Sec. 4 T. 30 R33

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

Static Water Level for non-flowing well surface feet.

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

Pumping Water Level surface feet at 100 gal. per minute.

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

How Tested pump, stopwatch, 50 gal. bbl.

Length of Test 16 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) clay sides & bottom; culvert casing used to keep pump intake free of debris; manual 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).

NW 1/4 SW 1/4 NW 1/4 Section 4, Township 30 North, Range 33 West; 40 acres; also for fire protection

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.

(Appropriator)

Driller's License Number

s/ Donald C. Brock

Driller's Signature.

44,884

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4855, 3

File No.....

T. 30 R. 33

DUPLICATE

County Lincoln

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 1980)
(approximate)

6 feet clay

6 feet water

Show exact depth of bottom.

Owner Donald C. Brock Address Troy, Montana

Driller same Address same

Date of Notice of appropriation of groundwater August 21, 1968

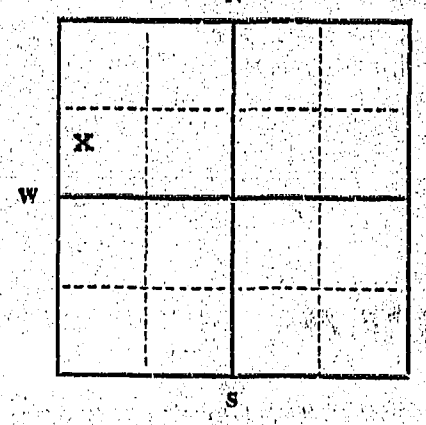
Date well started August 21, 1968 Date completed August 29, 1968

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

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

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)
3 feet	8 foot long 3 foot corrugated galvanized culvert	0	6	1 inch on 12 inch centers	5 (from top of casing)	8



SW 1/4 NW 1/4 ~~SW 1/4~~ Sec. 4 T. 30 R33

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

Static Water Level for non-flowing well surface feet.

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

Pumping Water Level surface feet at 100 gal. per minute.

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

How Tested pump, stopwatch, 50 gal. bbl.

Length of Test 16 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) clay sides & bottom; culvert casing used to keep pump intake free of debris; manual 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).

NW 1/4 SW 1/4 NW 1/4 Section 4, Township 30 North, Range 33 West; 40 acres; also for fire protection

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.

(Appropriator)

Driller's License Number

s/ Donald C. Brock

Driller's Signature.

44,884

Lincoln

Donald C. Brock

s is is s

is

s

S/Donald C. Brock

29th August 68

s/ J. F. Fennessy, Jr.

Libby, Montana

November 28 69

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 23rd day of December A. D. 19 68

at 2:55 P. M.

E. Kearns Vaughn
County Clerk

By ..... Deputy

#670

INDEXED

GW 2

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

File No.....

MONTANA WATER RESOURCES BOARD
RECEIVED
DEC 2 1971

T. 30 N. R. 33 W

County Lincoln

DUPLICATE

LOG

Top of Ground

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

0'-20' Sand + Gravel

20'-85' Quick Sand

85'-90' Silt + Clay

90'-155' Clay

155'-167' Water Sand

167'

Show exact depth of bottom.

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 Donald C. Brock Address Troy, Mont.

Driller C + L Plumbing Address Libby, Mont.

Doc. No. 818
Filed for record
this 30 day of Nov.
A. D. 19 71, at 2:40
o'clock P. M.

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

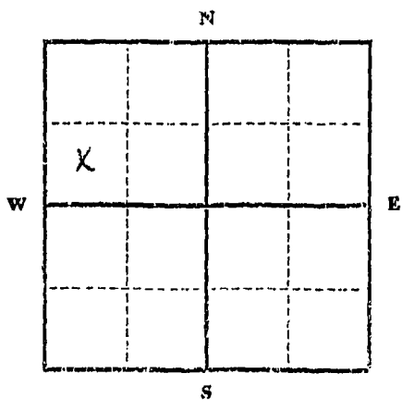
Date well started 11-18-64 Date completed 11-21-64

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)
6 5/8"	14#	0'	167'	1/2" Round	161'	167'



SW 1/4 NW 1/4 Sec. 4 T. 30 N R. 33 W
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 149 feet.

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

Pumping Water Level 132 feet at 30 gal. per minute.

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

How Tested Bailed

Length of Test 2 Hrs

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

.....(Continue on reverse side)

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

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.

#141
Driller's License Number

Clifford D. Buckar
Driller's Signature

49512

818

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 30th day of November A. D. 19 71
at 2:40 o'clock P. M.

Eleanor L. Vaughn
County Clerk

By Joe Watson
Deputy

GW 1

File No..... T.....R.....

DUPLICATE County Lincoln

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

MONTANA WATER RESOURCES BOARD
RECEIVED
OCT 3 1968

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

1. I, Donald C. Brock (Name of Appropriator), of Troy, Montana 59935 (Address) (Town) County of Lincoln, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is domestic, irrigation and other useful and beneficial purposes; Lot 4 and Southwest Quarter Northwest Quarter Section 4 and Lot 1 Section 5, Township 30 North, Range 33 West (describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 100 gallons per minute

4. The annual period (inclusive dates) of intended use continuous

5. The probable or intended date of first beneficial use August 21, 1968

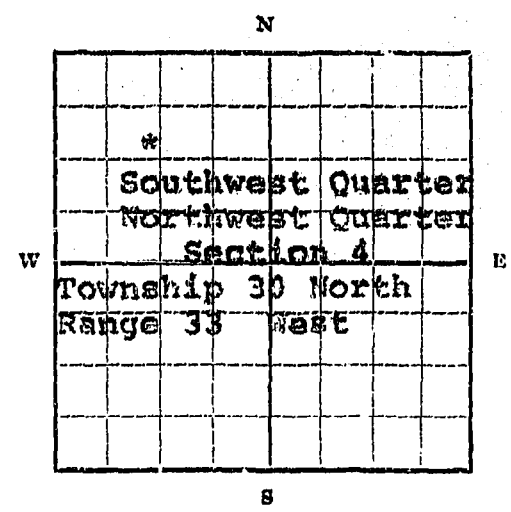
6. The probable or intended date of commencement and completion of the well* or wells* Commencement August 21, 1968; completion November 19, 1968

7. The location, type, size and depth of well or wells contemplated In south central portion Southwest Quarter Northwest Quarter above mentioned Section 4; dug well 3 feet in diameter 4 feet deep with 3 foot metal casing

8. The probable or estimated depth of the water table or artesian aquifer at or near surface

9. Name, address and license number of the driller engaged (Well to be dug by appropriator)

10. Give such other similar information as may be useful in carrying out the policy of this act (None known)



Lot 1 Section 5 and
Lot 4 & SW ¼ NW ¼ Sec. 4 T. 30 R33

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Donald C. Brock

Date August 21, 1968

* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artifically withdrawn."

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

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

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

44,624

INDEXED

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 2nd day of
October A. D. 1968
at 2:15 00 P. M.
Eleanor F. Vaughn
County Clerk
By Jean Walters
Deputy

GW 2

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

File No.....

Sec. 8 T. 30 N R. 33 W

DUPLICATE

County Lincoln

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 17 1964
STATE ENGINEER

Top of Ground
(Elev. above sea level approximately 2200)

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Appox. 5' loam
Clay
Sand
Black sand
Clay hard pan

Owner Dorothy C. Perkins-Edwards Address Troy, Montana P. O. Bx. 113

Driller John G. Edwards Address Troy, Montana P. O. Bx. 113

Date of Notice of Appropriation of Groundwater December 20, 1963

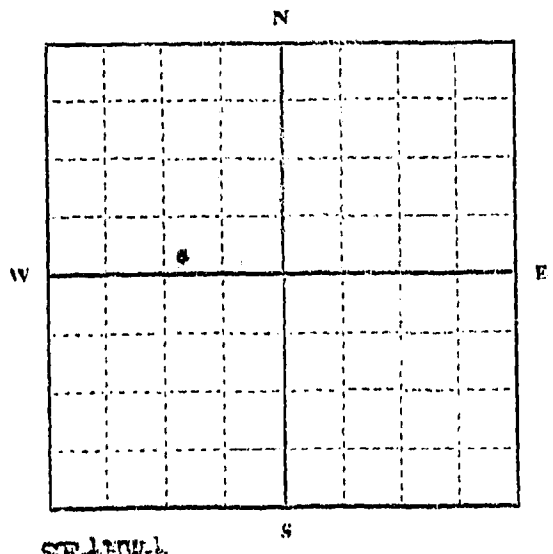
Date well started July 5, 1963 Date Completed August 15, 1963

Type of well Dug (dug, driven, bored or drilled) Equipment Used Power digger (Churn, drill, rotary, other) Extended post digger and shovel

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)
Dug Appox. 4'x8'	Laminated wooden Crib 4'x8'	surface	to 12'	Gravel packed on outside and bottom. Water enters bottom except when water table rises.		



SE¼ NW¼ Sec. 8 T. 30 R. 33
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well Appox. 8' feet.

Shut-in Pressure for Flowing Well Doesn't apply--not a flowing well.

Pumping Water Level 3' to 5' feet at ..... gal. per minute.

Discharge in gal. per min. of flowing well Electric Peerless Convertible Jet Pump used for eight hours to test.

How Tested ..... Length of Test .....

Pump capable of pumping 900 gal. per hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) Three Placed well appox. 50' above lake. Same springs used for stock, household & irrigation since 1907, first by my folks and since by me. Still can switch to springs for emergency & irrigation. Use electric pump for automatic water system.

Show exact depth of bottom.

Driller's License Number
Diggers

John G. Edwards
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.

34932

INDEXED

301

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 30th day of
December A. D. 1963
at 4:49 A. M.
M. M. Mansfield
County Clerk.
By Mae Watson
Deputy

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Lincoln

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 Fayge Eugene Lyle

Address Box 300
Troy, Montana

Date well started Sept 12, 1966
completed Oct 1, 1966

For Administrator's Use
File 790
August 12, 1971 12:05 Pm
GW 1

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

Equipment used shovel, pick, and steel weights, rope and pulley
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☒

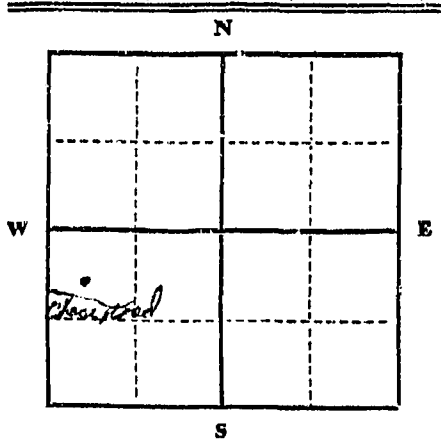
Industrial ☐ Drainage ☐ Other ☒* Garden/Lawn ☒

*Describe Farming and home hold use

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). 14.45

ESTIMATED ANNUAL WITHDRAWAL 25000 gallons a year

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
driven 1½" pipe	1½" 8 lb.	2981	2967	digging 6x6 hole	3000	2981
				driven	2981	2967



S.W. 1/4 N.W. 1/4 Sec. 9
T. 30 N R. 33 ~~E~~ W

Static water level 11 ft.*
Pumping water level 10 ft.*
at Applicable gallons per minute, measured Applicable minutes after pumping began.
*Measured from ground level.
Well developed by Fayge Eugene Lyle
for 320 hours.
Power 110 Volts Pump 1 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)
Check valve 1½"
3/4" foot valve - shut off

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

Driller's Signature Fayge Eugene Lyle

Driller's Address Box 300 Troy, Montana

LICENSE NO. None

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) 3000 ft.

From (Feet)	To (Feet)	
3000	2990	dirt
3000	2998	top soil
2998	2981	Clay
2981	2970	sand
2970	2969	gravel hard floor
2967	2978	found and rises

2978 feet Show exact depth of bottom

48875

INDEXED 790

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 12th day of August A.D. 1971 at 12:05 P.M.

Eleanor L. Vaughn
County Clerk.

By Mae Watson
Deputy

G

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

19

File No.....

T. 30 N. R. 33 W

DUPLICATE

County Lincoln

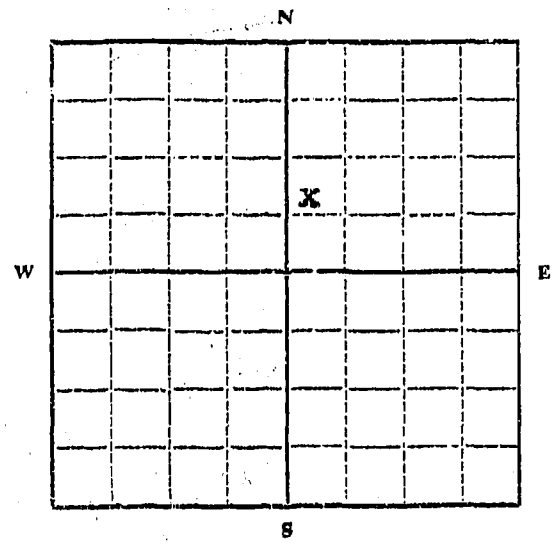
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAY 10 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Charles R. Burnham, of Rt 3, Box 336, Troy
(Name of Appropriator) (Address) (Town)
County of Lincoln State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SWNE¼ Sec. 19 T30 R. 33

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

2. The beneficial use on which the claim is based Household, garden, lawn, guest house, and possible future irrigation and/or commercial use.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1951

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal electrically pumped from shallow well beside Keeler Creek.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1951

8. The depth of water table Not determined.

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 Block shallow well approx 15' deep

10. The estimated amount of groundwater withdrawn each year Not determined.

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 This well has underground source of supply as well as acting as reservoir for water directly from Keeler Creek.

Signature of Owner Charles R. Burnham

Date 5-4-63

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

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

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

4253

80

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 6th day of
May A. D. 1963
at 10:20 A. M.
M M Mansfield
County Clerk.
By Mae Wilson
Deputy

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Lincoln

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 Joe Neisess

Address Troy Mont

For Administrator's Use
File 972
June 25, 1973
GW 1 3:05 p.m.

Date well started 5-20-73

completed 5-25-73

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).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	17# 6 5/8 OD	+1	64'	½"	60'	64'

N
W E
S

SE ¼ NE ¼ Sec. 32
T. 30 N R. 33 W

Static water level 40 ft.*
Pumping water level 40 ft.*
at 20 gallons per minute,
measured minutes after pumping began.
*Measured from ground level.
Well developed by Bailing
for 2 hours.
Power 230 Pump ½ Sub 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 Goldbrook Drilling
Donald F. McCracken

Driller's Address Rt 2 Box 508 Libby, Mont

LICENSE NO. 222

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	15	Cobbles & clay
15	45	Sandy Gravel
45	60	Hard Pan
60	65	Water Sand.

64' Show exact depth of bottom

54182

972

STATE OF MONTANA
COUNTY OF LINCOLN

Filed this 25th day of June A. D. 1973.
at 3:05 P M.
Eleanor L. Keogh
County Clerk
By Verda L. Keogh
Deputy