

5272

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on

MAR 17 1971

at 4:45 o'clock P.M.

J. E. FENNON

County Clerk and Recorder.

By [Signature]
Deputy.

DEPOSITED IN BOOK 1
TO VOLUME 2111

File No.

T. R.

DUPLICATE

County Cascade

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

RECEIVED

Top of Ground

(Elev. above sea level 3060)

Notice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

0 to 2 ft. Stream2-5 Grey shale5-8 yellow sand rock8-21 yellow sandy shale21-24 yellow sand rock24-61 yellow sandy shale61-70 Grey sand rock

Water filled up to 43 ft. from top.

Owner Stan TallierAddress 2021 1st Ave. N.Driller E. D. RaffertyAddress 222-10th Ave. S.W.Date of Notice of appropriation of groundwater Not applicableDate well started May 20, 1969Date completed May 22, 1969Type of well Drilled

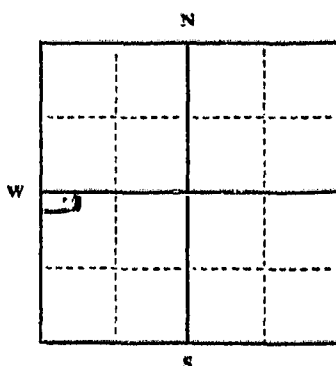
(Dug, driven, bored or drilled)

Equipment used Churn drill

(Churn drill, rotary or other)

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

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



Static Water Level for non-flowing well

43 ft. from top feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 43 ft. from top feetat 50 gal. per minute.

Discharge in gal. per min. of flowing well

Not applicableHow Tested BoilerLength of Test One hour

Remarks: (Gravel packing, cementing, pack-

ers, type of shutoff) Cave catchermade of galvanizedtin placed aboveperforations

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.

State License # 28

Driller's License Number

E. D. Rafferty

Driller's Signature

45,317

5172

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on

JUN 3 1969

at 8:00 o'clock 2 M

J. L. LENNON

County Clerk and Recorder.

By

J. L. Lennon

Deputy.

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 Otto R. Wolfe
Adeline M. Wolfe

Address 1317 Ave. C, N.W.

Great Falls, Montana

Date well started Oct 5, 1971

completed Oct 7, 1971

For Administrator's Use

File 5322

October 12, 1971

10:30 AM

GW 1

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Open drill

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

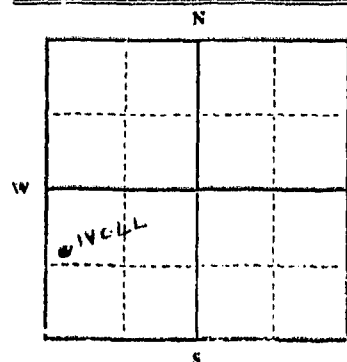
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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 900,000 gals

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 inch	5 1/2" O.D. 8 lbs per ft.	0	70	slits 1" X 1/8"	48	67



N/W. 1/4 S/W. 1/4 Sec. 28

T. 20 N. R. 3 E. 1/4

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

Driller's Signature E. D. Rafferty

Driller's Address 927-10th. Ave. S.W.

Great Falls, Mont.

LICENSE NO. 28

County Blaine

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) 3500'

From (Feet)	To (Feet)	
0	2	Loam
2	15	Grey sand rock
15	22	Yellow sandy shale
22	58	Yellow sand rock
58	70	water-Grey sand rock
		water from 61' to 70'

70' Show exact depth of bottom

49241

5322

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on

OCT 12 1971

at 10:30 o'clock 12 M.

J. L. LENNON

County Clerk and Recorder

By

R. E. Baleman

Deputy

52,108

5446

STATE OF MONTANA, } ss
County of Cascade.

I hereby certify that the within instrument was filed in this office on

DEC 22 1972

Date

at 12:01 o'clock P M

J. L. LENNON

County Clerk and Recorder

By

[Signature]

Deputy

County Lisade

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 **John D. Buchanan**

Address **1921 Cherry Drive**

Great Falls, Montana

Date well started August 6, 1972 W

completed **Sept. 16, 1971**

Type of well Drilled by rotary rig

(Dug, driven, bored or drilled)

Equipment used rotary rig

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

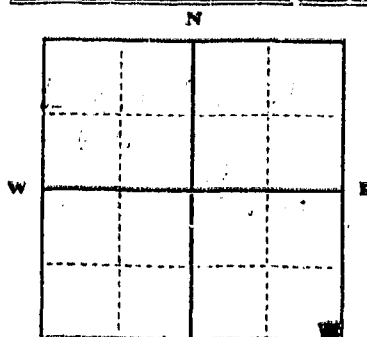
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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 & 3/8"	6" steel	top	to bottom	1/4"	64'	87'



Lot 8, Block 1, Castle
NE ¼ NE ¼ Sec. 17
T. 20 N. R. 13 E.

Weights Subdivision, Cascade County, Montana
INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature**Driller's Address**

Static water level 54' ft.*
Pumping water level 54' ft.*
at 45 gallons per minute,
measured 60 minutes after pumping
began.

*Measured from ground level.
Well developed by Mendenhall
for 5 hours.

Power N/A Pump N/A HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff) _____

Well was cemented to
keep out surface water

LICENSE NO.

DRILLER'S LOG

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

Top of Ground

(Elev. above sea level)

[illegible]

27*

Show exact depth of bottom

52,607

5445

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on
DEC 22 1972

at

12:00 o'clock P M

J. L. LEMMON

County Clerk and Ex-Officio

By

J. E. Salena

Deputy

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 MION

Address Box 252

Black Eagle, Montana

Date well started 19 Feb '72

completed 21 Feb '72

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Rotary

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

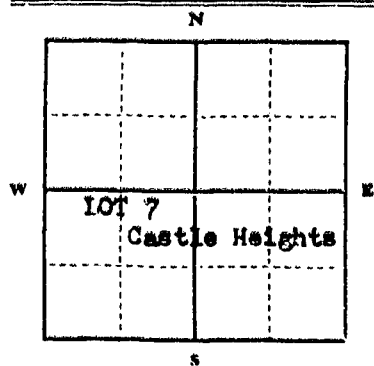
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL 500,000 Gal.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 7/8	4" PVC	Sfc	66'	Slotted	60'	65'



1/4 Sec. 29
T. 20 N. R. 3 E. S. 14

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

Driller's Signature George J. Taylor

Driller's Address 503 - 34th St. NW.

Great Falls, Mont. 59401

LICENSE NO. 214

66'

Show exact depth of bottom

50,153

RECEIVED

APR 10 1972

County Cascade

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		3:70 (Elev. above sea level)
From (Feet)	To (Feet)	
Sfc	5	Soil
5	10	Sandy Shale
10	15	" "
15	20	" "
20	25	" "
25	26	" "
26	30	Clayish Shale
30	35	Sandy Shale
35	40	" "
40	45	" "
45	50	" "
50	55	" "
55	57	Clayish Shale
57	60	Sandy Shale
60	66	Sandstone (Water)

5352

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on

MAR 30 1972

at 12:30 o'clock P.M.

J. L. LINTON

County Clerk

By

R. E. Bateman

Deputy

47228

5237

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within ~~in~~
document was filed in this office on

JUL 27 1970

at 8:38 o'clock A. M.

J. L. LINDEN
County Clerk and Recorder.

By R. E. Boleman
Deputy

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 HENRY C. SHAFER

Address 3477 1st Ave S

At Falls Mont.

Date well started 7-17-70

completed 7-20-70

Type of well DRILLED BY ROTARY

(Dug, driven, bored or drilled)

Equipment used

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

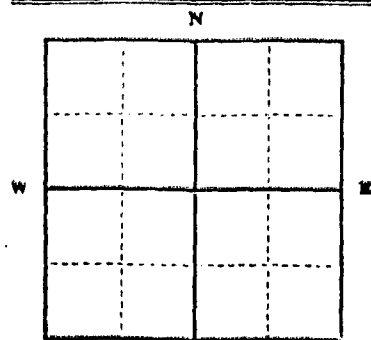
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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 Not Known 18000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
<u>5 1/8</u>	<u>300 # Plastic</u>	<u>0</u>	<u>90</u>	Kind Size	From (Feet)	To (Feet)
				<u>Holes 1/2"</u>	<u>80</u>	<u>90</u>



W 1/2 NE 1/4 SE 1/4 Sec. 29
T. 30 N. R. 3 E

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

Driller's Signature

Driller's Address

At Falls

LICENSE NO. 199

County Basque

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) 4200

From (Feet)	To (Feet)	
<u>0</u>	<u>2</u>	<u>top soil</u>
<u>2</u>	<u>7</u>	<u>sandy loess</u>
<u>7</u>	<u>35</u>	<u>dark brown (silt)</u>
<u>35</u>	<u>75</u>	<u>dark grey (clay)</u>
<u>75</u>	<u>77</u>	<u>black sand</u>
<u>77</u>	<u>80</u>	<u>light tan sand</u>
<u>80</u>	<u>85</u>	<u>black sand</u>
<u>85</u>	<u>90</u>	<u>blue shale</u>

90 Show exact depth of bottom

47298

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 L. Williams

Address 436-25th Ave NE

GREAT FALLS MONT.

Date well started 7-29-70

completed 7-31-70

Type of well DRILLED

(Dug, driven, bored or drilled)

Equipment used ROTARY

(Cable drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

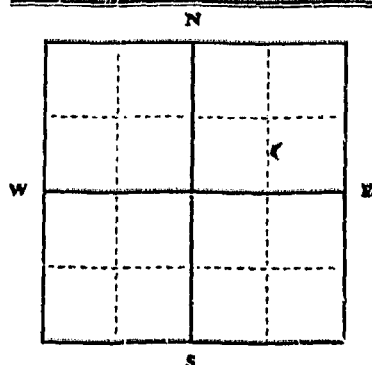
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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		
<u>5 5/8</u>	<u>4"</u>	<u>SUR.</u>	<u>82'</u>	Kind Size	From (Feet)	To (Feet)
				<u>1/2" holes</u>	<u>68</u>	<u>82</u>



W 1/2 W 1/2 SE 1/4 NE 1/4 Sec. 29
T. 20 N. R. 3 E.

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

Driller's Signature Darryl Henderson

Driller's Address 4020 3rd Ave So

St. Falls

LICENSE NO. 199

County CASCADE

DRILLER'S LOG

29

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)	
<u>0</u>	<u>2</u>	<u>Soil</u>
<u>2</u>	<u>71</u>	<u>Hard sand stone</u>
<u>71</u>	<u>80</u>	<u>Black sand</u>
<u>80</u>	<u>82</u>	<u>Thin deposit</u>

82 Show exact depth of bottom

47329

5239

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on

AUG 5 1970

Date:

at 1:10 o'clock PM

J. L. LENNON

County Clerk and Recorder.

By [Signature]
Deputy.

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 L. Williams

Address 436-25th Ave NE
GREAT FALLS MONT.

Date well started 7-29-70
completed 7-31-70

Type of well DRILLED

Equipment used ROTARY

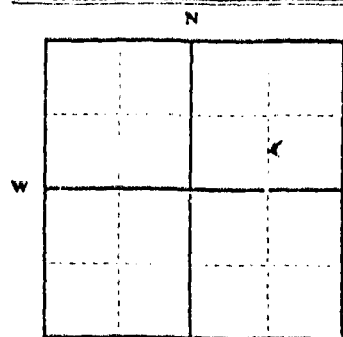
Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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 5600,000 gallons

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS
<u>5 5/8</u>	<u>4"</u>	<u>SUR.</u>	<u>82'</u>	Kind Size <u>1/2"</u> From (Feet) <u>68</u> To (Feet) <u>82</u>



W 1/2 NW 1/4 SE 1/4 NE 1/4 Sec. 29
T. 20 N. R. 3 E.

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

Driller's Signature Harry Henderson

Driller's Address 4020 3rd Ave So
Great Falls

LICENSE NO. 199

County CASCADE

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)	
<u>0</u>	<u>5</u>	<u>Soil</u>
<u>5</u>	<u>71</u>	<u>Hard sand from</u>
<u>71</u>	<u>80</u>	<u>Black sand</u>
<u>80</u>	<u>82</u>	<u>Line deposit.</u>

82 Show exact depth of bottom

47329

File No.

T. 20N R. 3E

DUPLICATE

County. Cascade

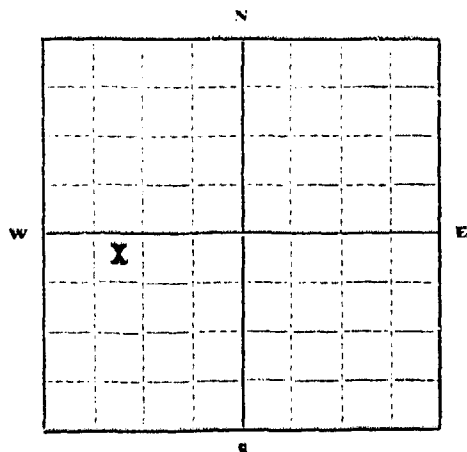
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. The Montana Power Company of 40 East Broadway Butte
(Name of Appropriator) (Address) (Town)
County of Cascade State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 SW 1/4 Sec. 31 T20N R. 3E

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 consumption and livestock water
 3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1900
 4. The amount of groundwater claimed (in miner's inches or gallons per minute). Natural spring, estimate 5 gallons per minute - 24 hours per day
 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.
Natural spring
 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1900
 8. The depth of water table.
 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.
 10. The estimated amount of groundwater withdrawn each year. 3,000,000 gallons
 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.
Spring located on hill side, comes out from under sand stone layer
- (CORPORATE SEAL)
ATTEST: [Signature]
Its Secretary
- THE MONTANA POWER COMPANY
By [Signature]
Vice President
Date February 1, 1962

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

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

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

#3091

APR 12 1962

S. 39

J. Sec.

File No.

T. 20 N. 3 E.

DUPLICATE

County Cascade

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)

Bought land with spring on it

Date of Appropriation of Groundwater 4-3-1948

Owner Private Address State St., T20 N

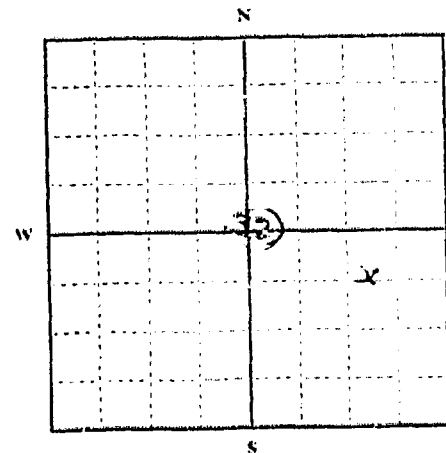
Contractor (if any)

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.

Natural spring



72 1/4 N.E. 1/4 Sec. 22 T. 20 N. R. 3 E.
Indicate point of appropriation and place of use, if possible.

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

estimate approximate lengths of periods of use 50 gals per min.

operation used guller and watch.

used area around for stock water

Signature of Owner Henry C. Curren (for) Olara Curren

Date 5-9-1948

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.

5166

STATE OF CALIFORNIA
County of Santa Clara
I, the undersigned, Clerk of the County of Santa Clara, do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears from the records of said County.
WITNESSED my hand and the seal of said County at the City and County of Santa Clara, California, this 9th day of May, 1969.
J. L. BARNETT
County Clerk Santa Clara
Deputy

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 DUDLEY B. HARTMAN
Address Route 1 So
Box 979
Date well started OCT 25 70 GW 1
completed NOV 3 70

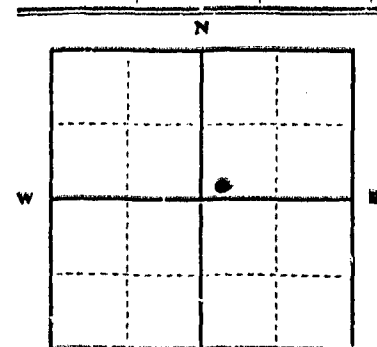
For Administrator's Use	
File	<u>5263</u>
Decided	<u>NOV 13 1970</u>
By	<u>W. B. C. A. M.</u>

Type of well DRILLED
(Dug, driven, bored or drilled)
Equipment used ROTARY
(Churn drill, rotary or other)
Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS
<u>5 5/8</u>	<u>4"</u>	<u>0</u>	<u>210</u>	Kind Size <u>1/2"</u> From (Feet) <u>190'</u> To (Feet) <u>210'</u>



Static water level 142 ft.
Pumping water level 130 ft.
at 10 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by FLUSHING
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 Harry Throckmorton
Driller's Address 4020 3rd Ave So

LICENSE NO. 199

County CASCADE

DRILLER'S LOG 32

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)	
<u>0</u>	<u>2</u>	<u>SOIL</u>
<u>2</u>	<u>24</u>	<u>SANDSTONE (FRACTURED)</u>
<u>24</u>	<u>76</u>	<u>HARD SANDSTONE</u>
<u>76</u>	<u>145</u>	<u>BROWN-BROWN SANDSTONE</u>
<u>145</u>	<u>187</u>	<u>SANDY TAN MUDSTONE</u>
<u>187</u>	<u>195</u>	<u>GRAY SHALE</u>
<u>195</u>	<u>210</u>	<u>CLAY SAND</u>

210 Show exact depth of bottom

47924

5763

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within instrument was filed in this office on

DEC 15 1970

Date

at 11:00 o'clock AM

J. L. LENNON

County Clerk and Recorder

By *[Signature]*
Deputy.

GW 2
File No. 5285
3 day of June
at 3:40
clock P M
DUPLICATE

Approved Stock Form—State Publishing Co., Helena, Montana—45557

T. Z. N. R. 32
County Cascade

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)

Owner: Chuck Henry Address: Great Falls, Mont.
Driller: Thomas B. Franklin Address: Great Falls, Mont.
Date of Notice of appropriation of groundwater: May 15, 1971
Date well started: May 20, 1971 Date completed: May 25, 1971
Type of well: Drilled Equipment used: Little 200's
(Dug, driven, bored or drilled) (Churn drill, rotary or other)
Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

medium hard
0-60' sharp sandstone
@ 60' - 1 gal. water per min.

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 1/2"	6" O. D. Plastic 1 3/4" dia. 400 ft.	Surface	125	Drilled 1" dia.	60-80	110-125

60-70' Red shales, clay

20-45' clay, sandstone, shingles

25-110' Black shale

SW 1/4 Sec 22 T20N R3E
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 60 feet.
Shut-in Pressure for Flowing Well None
Pumping Water Level 125 feet
at 15 gal. per minute.
Discharge in gal. per min. of flowing well None
How Tested Bailer
Length of Test 2 hrs
Remarks: (Gravel packing, cementing, packers, type of shutoff) None

(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 bearing sandstone, used also for irrigation of said lot or lots of
110-125' layers of clay
Drilling, etc., etc.

Show exact depth of bottom.

125'

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.

84
Driller's License Number
Thomas B. Franklin
Driller's Signature

118396

5285

STATE OF MONTANA, ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on

JUN 3 1971

Date

at 3:40 o'clock P M.

J. L. LEMMON

County Clerk and Recorder.

By

R. E. Baleman

Deputy.

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 DUANE OLSON

Address 2226-3rd St
St. Falls, Mont.

Date well started OCT. 1 1970

completed OCT 10-70

Type of well DRILLED

Equipment used ROTARY

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

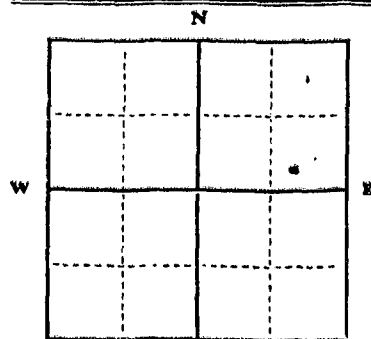
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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
5 1/8"	4" Plastic	0	215	Kind Size 1/2" hole
				From (Feet) To (Feet) 185 215



SE 1/4 NE 1/4 Sec. 32
T. 20 N. R. 3 E. 11

Static water level 162 ft.*
Pumping water level 168 ft.*
at 15 gallons per minute,
measured minutes after pumping began.

*Measured from ground level.
Well developed by flushing
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 Alvin Henderson Hall

Driller's Address 4020 3rd Ave 50

St. Falls LICENSE NO. 199

County Cascade 32

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	SOIL
4	26	FRACTURED SANDSTONE
26	62	SAND + PEACOCK
62	84	BROWN GRAY CLAY
84	122	SAND ROCK
122	185	HARD SHALE
185	215	GRAY SANDSTONE

215 Show exact depth of bottom

41853

5261

STATE OF MONTANA } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on
DEC 4 1970

Date
at 10:55 o'clock P.M.

J. L. LENNON
County Clerk and Recorder


By *R. Baleman*
Deputy.

48007

5305

STATE OF MONTANA, ss.
County of C. ss.
I hereby certify that the within in-
strument was filed in this office on
AUG 30 1977

3:15 o'clock P M
J. L. HENSON
County Clerk and Recorder.

by 
Deputy.

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 Leslie H. & Carl S. Smith

Address P.O. Box 1452

Great Falls, Mont 59403

Date well started 5-1-71

completed 5-7-71

Type of well Rotary Drilled

(Dug, driven, bored or drilled)

Equipment used

(Carn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

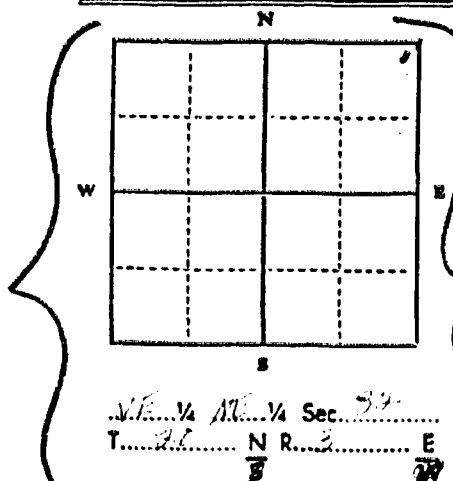
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*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)
<u>5 5/8</u>	<u>4"</u>	<u>0</u>	<u>85</u>	<u>1 1/8</u> <u>Holes</u>	<u>65</u>	<u>85</u>



Static water level 45' ft.*
Pumping water level 65' ft.*
at 12 gallons per minute,
measured 60 minutes after pumping
began.
*Measured from ground level.
Well developed by limpney
for 4 hours.
Power 4 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)
West 25 ft. of South 50 ft.
Lot 1, Blk 1, East addition
to Coats Heights

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

Driller's Signature Harry Henderson

Driller's Address 4020 3rd Ave So

Great Falls Mont LICENSE NO. 199

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)	
<u>0</u>	<u>6</u>	<u>Top Soil</u>
<u>6</u>	<u>35</u>	<u>hard sandstone</u>
<u>35</u>	<u>55</u>	<u>Sandstone (soft)</u>
<u>55</u>	<u>65</u>	<u>hard limestone</u>
<u>65</u>	<u>85</u>	<u>Black sand</u>

85' Show exact depth of bottom

48881

File No.

DUPLICATE

T. 20 R. 3 E

County Cascade

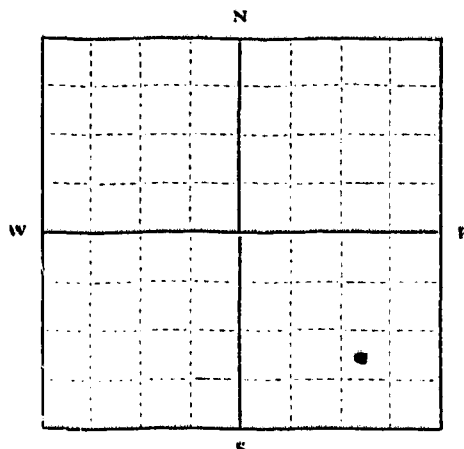
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 27 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. John E. Lora (Name of Appropriator), of Bozeman (Address), Great Falls (Town)
County of Cascade State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 35 T. 20 R. 3 E

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

2. The beneficial use on which the claim is based house
stock & hay
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1958 continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 Gallons
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
Electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1938
8. The depth of water table 70 ft
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater drilled 120 ft
10. The estimated amount of groundwater withdrawn each year 1095000 Gallon
11. The log of formations encountered in the drilling of each well if available do not know
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner John LoraDate Dec 17 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.

12006

3679

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on
DEC 23 1963

at 7:00 o'clock P M.

J. L. LENNON

County Clerk and Recorder.

By B. Keen
Deputy.

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

JUN 27 1972

DRILLER'S LOG

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 H.D. & Morton Odgen

Address Simms, Mont.

Date well started 8-20-1970

completed 8-26-1970

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

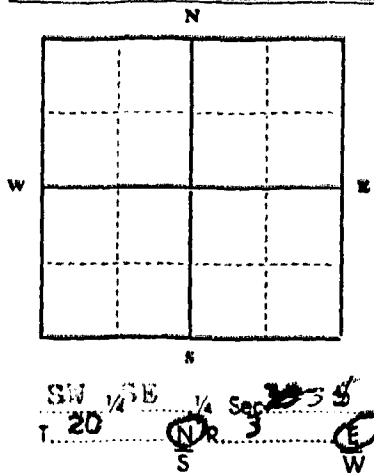
Equipment used Churn Drill
(Churn drill, rotary or other)

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)
8"	7"OD 17"	0	98	Torch	82	92



Static water level 75 ft.*
Pumping water level 95 ft.*
at 14 gallons per minute,
measured 1 minutes after pumping
began.
*Measured from ground level.
Well developed by Bailer
for 1 hours.
Power 1 Pump 1 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 [Signature]

Driller's Address Great Falls, Mont.

LICENSE NO. 135

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

Top of Ground (Elev. above sea level)		
From (Feet)	To (Feet)	
0	10	Hard Rock
10	40	Broken Sand Rock & shale
40	75	Dark Gray shale
75	98	Hard Greenish gray rock with water at 82' thru 92'

98 Show exact depth of bottom

50,219

5382

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on

JUN 9 1972
Date

at 7:45 o'clock P M

J. L. LENNON

County Clerk and Recorder

By

J. S. Wilson
Deputy



T. 20 R. N. 3 E
County Cascade

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Sam Bieswagon Address Atc. 2, Sand - 7.7.
Driller H. W. Franklin Address City
Date Started Nov. 5, 1957. Date Completed 12th 1957.
Location: Sec. 36 T. 20 R. N. 3 E $\frac{1}{4}$ sec.

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

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

Casing: top ft. to 32 ft. Type Iron Size 6 in.
Casing: top ft. to bottom 6' Type Iron Size 4 1/2 in.
Casing: _____ ft. to _____ ft. Type _____ Size _____

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

Type of screen or perforations 20 ft. in bottom end of casing

Static Water level, for non-flowing well: 40 ft. feet.

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

Pumping water level 14 feet at 12 gal. per min.

How tested: Bailer

Length of test 1 hr.

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

32' 6 in. casing driven in hard sandstone.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
10 ft.		Turner
20 "		broken sandstone and clay
30 "		" " mud water at bottom
9 "		white sandy clay.
69 ft.		Total depth of well.

CW 2 No. 5287
For record
File No. this 11 day of June
A.D. 1971 at 11:30 In Lot 4 & SWE
DUPLICATE P.M.

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

Sec. 36

Sec. 35 T. 20

R. 3E

County Cascade

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)

Owner Emory Galloway Address Beat Falls, Mont.

Driller Thomas B. Franklin Address Beat Falls, Mont.

Date of Notice of appropriation of groundwater Aug. 10, 1969

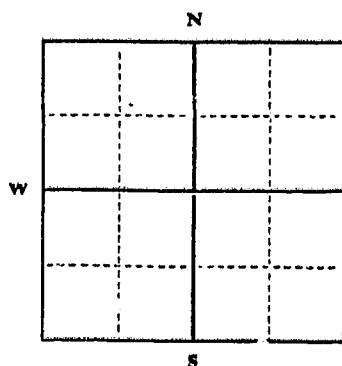
Date well started Oct. 15, 1969 Date completed Oct. 20, 1969

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

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

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 inch	6" 2.9 18 lbs per ft.	Surface	142	None	None	None



Static Water Level for non-flowing well
.....12.....feet.

Shut-in Pressure for Flowing Well None

Pumping Water Level 6.0 feet
at 30 gal. per minute.

Discharge in gal. per min. of flowing well
None

How Tested Sinker

Length of Test 2 hrs

Remarks: (Gravel packing, cementing, packers, type of shutoff) None

SWE 1/4 Sec. 36 T. 20 R. 3E
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

0-5135' Alluvial Drift Sand

135'-142' Sandstone
water bearing
Show exact depth of bottom.

142'

(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).

Used for irrigation of owners property and trailer court for house, trees and shrubs and household use of said.

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.

84
Driller's License Number

Thomas B. Franklin
Driller's Signature.

5289


STATE OF MONTANA, }
County of Cascade.

I hereby certify that the within instrument was filed in this office on

JUN 11 1971

11:30 A.M.

J. L. HATCH
County Clerk and Recorder.

By 
Deputy.

GV

File No.

T. 20 R. 3 E. 2

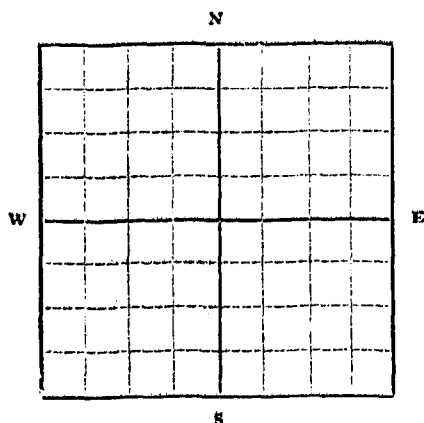
DUPLICATE

County Cascade

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Mary Callahan of Rt. 1 So. Donovan Park Great Falls
(Name of Appropriator) (Address) (Town)
County of Cascade State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



N. 3/4 NE 1/4 Sec. 36 T. 20 R. 3 E

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

2. The beneficial use on which the claim is based household & irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1927 and is used constantly since prior date
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 garden, lawn, trees & shrubs comprising two plus ~~area~~ acres also very slight use for grass or pasture land comprising 5 additional acres. Owner- Mary Callahan
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal means is with a Jet electric one horse pump 30 feet from S. W. corner of dwelling
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1927, month unknown. Recasing & deepening November 1962 (23ft).
8. The depth of water table 50 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 Original well casing 6 inches. Dept of casing 197 feet. Replacement casing (within old casing) 51 inches and length of replacement casing 220 feet.
10. The estimated amount of groundwater withdrawn each year 2,000,000 ?? gallons
11. The log of formations encountered in the drilling of each well if available 0 ft. — 15 ft. Sandy silt. 15 ft. to 33 ft. Silt. 33 ft to 55 ft. (water) quick sand. 55 ft to 145 ft sandy silt. 145 ft to 193 ft silt. 193 ft to 214 ft. sand & fine gravel 214 ft to 220 ft. sand rock and water
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 Possess no knowledge of any existing record prior to this date December 9, 1963

Signature of Owner

Mary Callahan

Date December 9, 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 School of Mines and Quadruplicate for the Appropriator.

8609

#3468

STATE OF MONTANA, ss.
County of Cascade.

I hereby certify that the within instrument was filed in this office on

DEC 10 1968

8:34

of Clerk 9 DE

J. L. JEFFERSON

County Clerk - Recorder

By *B. L. Jones*

Notary

No.

JUL 5 1966 Virginia ... T. 20N R. 3E S. 1E

QUADRUPPLICATE

DUPLICATE

TRIPPLICATE

... .. County ...

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)

Owner ... Address ...

Driller ... Address ...

Date of Notice of Appropriation of Groundwater

Date well started ... Date Completed ...

Type of well ... Equipment Used ...
 (dug, driven, bored or drilled) (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"	7" 20 lb - wld	0'	240'			

Static Water Level for non-flowing Well ... 18 feet.

Shut-in Pressure for Flowing Well

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

Discharge in gal. per min. of flowing well

How Tested ... Length of Test ...

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) ...

packed with roofing gravel from 215' to 240'

Driller's License Number

Driller's Signature

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

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

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

4/17/75

4971,

STATE OF MONTANA, }
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on

JUL 1 1966

Date

at 10:00 o'clock AM.

J. L. LENNON

County Clerk and Recorder.

By [Signature]
Deputy.

File No.

T. 20 R. 3 E

DUPLICATE

County. Daniels

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well
STATE ENGINEER
(Under Chapter 237, Montana Session Laws, 1961)

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

10' loose fill dirt

15' broken up sandstone, boulders.

5' Red Shale

10' Gray Shale

8' Hard Sandstone

7' light sticky clay

12' Gray Shale

13' light sticky clay

5' Gray Shale

7' Water Bearing Sandstone

95'

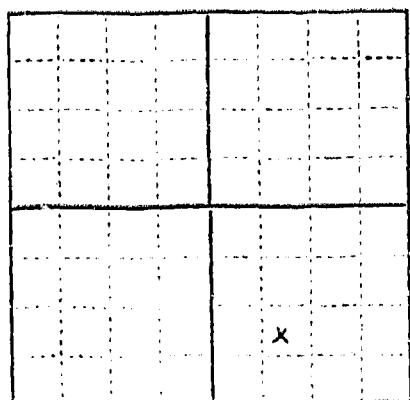
Owner Bene Chamberlin Address Great Falls, Mont.Driller Thomas B. Franklin Address Great Falls, Mont.Date of Notice of Appropriation of Groundwater Oct. 20 - 1963Date well started Oct. 28 - 1963 Date Completed Nov. 3 - 1963

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 5/8	6 1/4 I.D. 20 lbs per ft.	top	25			



54 1/4 Sec. 36 T. 20 R. 3 E

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 70 feet.

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

Pumping Water Level 95 feet at 12 gal. per minute.

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

How Tested Barile 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).....

84
Driller's License Number

Thomas B. Franklin
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.

9577

3500

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within is
correctly as filed in this office.

DEC 16 1963

Date

at 10:00 o'clock P.M.

J. L. LENNON

County Clerk and Recorder.

By M. C. Field
Deputy.

1
1

File No.

T. 20 R. 36

DUPLICATE

County Cascade

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 17 1963

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. I, Gene Chamberlin, of 671-5 Ave N Great Falls
(Name of Appropriator) (Address) (Town)
County of Cascade, 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
(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 15 gallons per minute

4. The annual period (inclusive dates) of intended use Jan 1, to Dec 31

5. The probable or intended date of first beneficial use Jan 1st 1964

6. The probable or intended date of commencement and completion of the well* or wells*
Oct. 18, 1963 commenced, completion Nov. 3, 1963

7. The location, type, size and depth of well or wells contemplated
North East side of house. hand casing

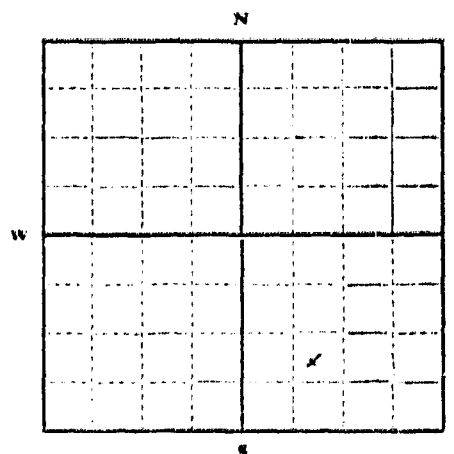
8. The probable or estimated depth of the water table or artesian aquifer 100 feet.

9. Name, address and license number of the driller engaged Thomas B. Franklin
Box 1 South License No. 84

10. Give such other similar information as may be useful

in carrying out the policy of this act.

N.A.



Sec. 1/4 Sec. 36 T20 R. 36
Locate well or other means of development as accurately as possible on the plat. Linda L. 12-20-63

Signature of Appropriator Gene Chamberlin

Date Dec 16, 1963

* 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 artificially 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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

9517

#3501

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument is filed in this office on

10:01 10:01 1933

10:01 o'clock 1 M.

S. L. J. J. J. J.
County Clerk and Recorder.

By B. J. J.
Deputy.

File No. _____

T20N R3E 36

DUPLICATE

County Cascade

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

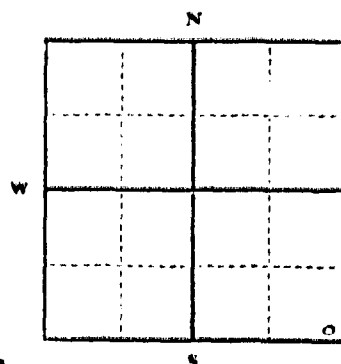
Notice of Completion of Groundwater
Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

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

Owner Ray Chamberlin Jr. Address Blain, Mont.Driller Thomas B. Franklin Address Great Falls, Mont.Date of Notice of appropriation of groundwater July 10-1969Date well started Aug 1-1969 Date completed Aug 15-1969Type of well Drilled Equipment used Cable Tools
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 1/2"	8" L.D. 10 lbs per ft.	Surface	12'	None	None	None

Static Water Level for non-flowing well 150 feet.Shut-in Pressure for Flowing Well NonePumping Water Level 205 feet
at 7 gal. per minute.Discharge in gal. per min. of flowing well NoneHow Tested BailLength of Test 1 hr.Remarks: (Gravel packing, cementing, packers, type of shutoff) None

SE 1/4 Sec. 36, T20N, R3E.
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).

will be used for irrigation on lot or onto

Top of Ground

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

0-1' Top Soil 5.200

Dec. No. _____
Filed for record
this 23 day of December
A.D. 1969, at 12:50 P.M.

1-25' Shale Rock25-30' Hard Red Rock30-45' Med. Hard Rock45-80' Red Shale, Hard
80-90' Rock Stringers80-100' Hard Red Rock100-105' Honey Shale105-109' Red Shale109-115' Heavy Sandstone115-130' Brown Sandstone130-175' Shale, Heavy
Sandstone Stringers175-180' water bearing
Sandstone180-205' Shale, Heavy
Sandstone Stringers

Show exact depth of bottom.

205'

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.

84
Driller's License Number

Thomas B. Franklin
Driller's Signature.

16120

5200

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on
DEC 23 1969

Date

at 12:50 o'clock P. M.

J. L. LENNON

County Clerk and Recorder

By

R. E. Baleman

Deputy

File No.

T. 25 N. R. 3 E.

DUPLICATE

County. 25 N. R. 3 E.

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 9 1964

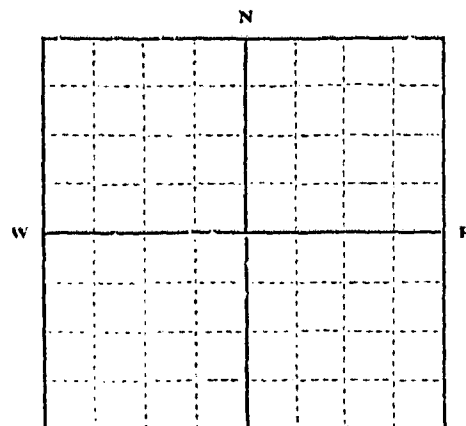
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. J. Helmut Albert L. Krizan, of R.R. 15 Great Falls Mont
(Name of Appropriator) (Address) (Town)

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



Lot 43, Block #2 Donovan Park

1/4 Sec. T. R.

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

2. The beneficial use on which the claim is based Stock, House hold, and irrigation.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Continued since 1950.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 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 Garden, lawn, Pasture, 1 1/2 acres
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 1950
8. The depth of water table 45 ft.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 187 ft. deep
10. The estimated amount of groundwater withdrawn each year Amount in gallons, 7,446,000
11. The log of formations encountered in the drilling of each well if available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner

Date

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

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

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

28296

4307

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on
Dec 6 1915.

at 10:48 M.

By J. J. Chesser
County.

File No.

T. 20N R. 3E

DUPLICATE

County Cascade

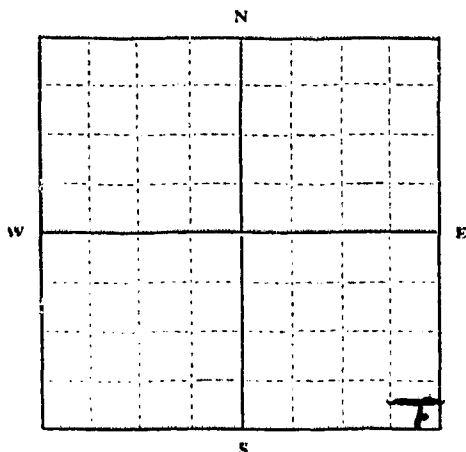
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 17 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Frank V. Dannels ^{Violet M. Dannels} of Rte #1 - Box B-53 Great Falls
(Name of Appropriator) (Address) (Town)
County of Cascade State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 NE 1/4 Sec. 36 T20N R. 3E

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 Home Use and Garden & Lawn Irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Aug. 20 - 1953
Continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 12 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
House - Yard & Garden
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Jet Pump - 1 Well
Plot Location - on 1.93 acres
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Aug 13 - 1953 to Aug 17 - 1953
8. The depth of water table 20' ft from top of ground
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" casing - driven open end into gravel
110' ft deep
10. The estimated amount of groundwater withdrawn each year 2,560,000 gals
11. The log of formations encountered in the drilling of each well if available
0-14' Loose Sand - 14-20' fine Sand - 20-97' silt - 97' to 100' fine Sand & gravel 100' to 109' Loose Sand & gravel 109' to 110' yellow shale - water 109'
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
Report to State Engineer
at Line of well

Signature of Owner

Frank DannelsDate Dec 16 - 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.

9579

3502
#3572
STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on
DEC 16 1963

Date
at 10:02 o'clock A.M.

J. L. LEMMON
County Clerk and Recorder.

By Blair
Deputy.

File No.

DUPLICATE

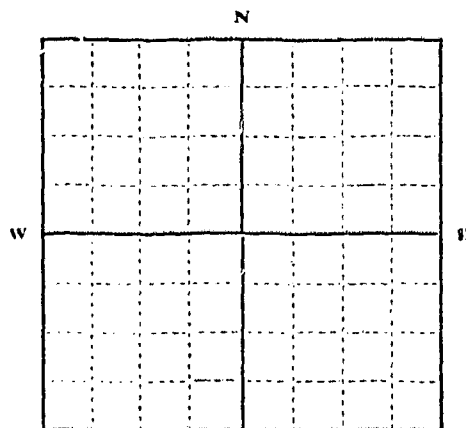
Donovan Park--Addition to
T. 24 N. R. 10 E. S. 10
Montana
County Cascade

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Donovan Park Youth and Community Center of Great Falls, Montana
(Name of Appropriator) (Address) (Town)
County of Cascade State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Donovan Park--Addition to Great Falls,
Montana.

..... 1/4 Sec. T. R.

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 Dug well for domestic use of center irrigation of grounds.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been April, 1963; continuous since that date.
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 South 350' of the west 150' of Lot 4--Block 1. Donovan Park--an addition to Great Falls, Cascade County, Montana.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Dug well--electric jet pump.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater April, 1963. Dug well.
8. The depth of water table 24'
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 30' Dug well.
10. The estimated amount of groundwater withdrawn each year 200,000 gallons per year.
11. The log of formations encountered in the drilling of each well if available 20' of sand; 4' of blue clay; Sand.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Recorded December 30, 1963

Signature of Owner E. J. Holmberg

Donovan Park Youth & Community Center

Date December 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; Triuplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

28434

4448

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on

DEC 31 1999

at 1:12 PM

J. L. LUTHER
County Clerk and Rec.

By [Signature] Deputy

5795

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on

May 8 1968
Date

2:28 o'clock PM

J. L. LENNON

County Clerk and Recorder.

[Signature]
Deputy

File No.

T. R.

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

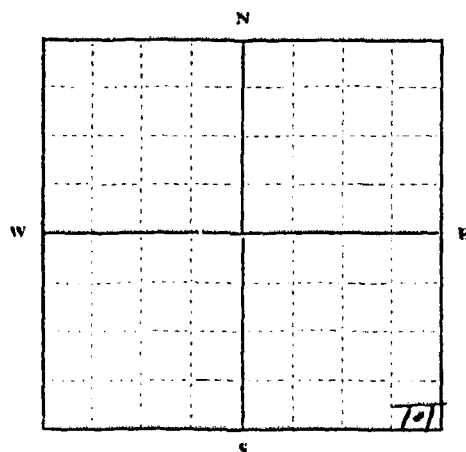
RECEIVED
OCT 27 1962

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. John L & Bert H. Earl, of Route #1 Great Falls
(Name of Appropriator) (Address) (Town)
County of Cascade State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



$\frac{1}{4}$ Sec. 36 T. 20 R. 3 East

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 Gardening

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Aug. 30, 1959

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 12 gal. per min.
65 ft. from top

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
Bert & John Earl
Rt #1, Great Falls, Mont.
Sec. 36 T. 20 R. 3 East

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

Submergible Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commence Aug. 3, 1959
Complete Aug. 6, 1959

8. The depth of water table 65 ft. from top

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Drilled - Casing 9-11 ft
Type - Black Iron, Size 5 wide

10. The estimated amount of groundwater withdrawn each year Approx 2628000 per yr.

11. The log of formations encountered in the drilling of each well if available
0-15 loose sand 103-107 quick sand/gravel
15-17 quick sand - sup 109-111 gravel
17-103 silt

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

Report sent to State Engineer upon completion

Signature of Owner

Bert H. Earl
John L. Earl
Date 12-23-63

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.

12498

3671

SEAL OF MONTANA
County of Lincoln

I hereby certify that the within in-
strument was filed in this office on
DEC 21 1962

FILE

10:40 a.m. R.M.

J. L. HENNING

County Clerk of Lincoln

J.C. Nichols
County Clerk

File No.

DUPLICATE

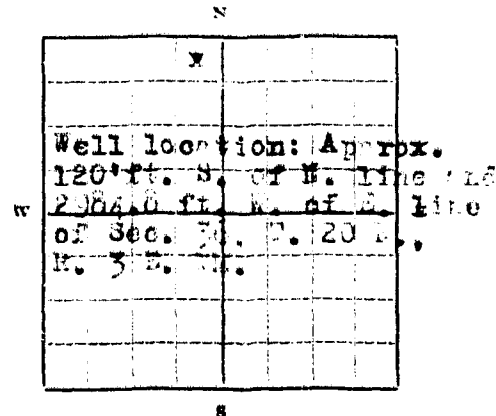
T. 20N R. 38 W.

County CASCADIA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Wm. B. Finlay, Jr. and
Iola B. Finlay (hus. & wife) of Rural Route No. 1, Great Falls
(Name of Appropriator) (Address) (Town)
County of Cascade State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



DW 1/4 Sec. 30 T20N R. 38 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 Domestic household, stockwater, irrigation, farming.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been March 15, 1948. continuous use thereafter
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 185 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 three to six and one half acres. Garden, yard, grass, hay lands, shelter belts. Owned by Wm. B. Finlay, Jr. and Iola B. Finlay
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electrically powered jet pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commenced drilling Mar. 13, 1948 Completed drilling Mar. 15, 1948
8. The depth of water table Sixty (60) 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 Drilled well, 8" to 30" and (5 1/2) feet and one-half inches to 60 ft. Well fully cased with 5 1/2 inch casing from surface to 60 ft.
10. The estimated amount of groundwater withdrawn each year 200,000 gallons
11. The log of formations encountered in the drilling of each well if available 1 to 22 ft. gumbo; 22 to 30 ft. quicksand and shale; 30 to 60 ft. 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 None

Signature of Owner Wm. B. Finlay, Jr.

Date May 5, 1962

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

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

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

3110

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on
MAY 9 - 1962

Date

at 9:30 o'clock A.M.

J. L. LENNON

County Clerk and Recorder.

[Signature]
Deputy.