

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.

*Ronald R. & Adelaide H. Shields*

Owner *Mr Shields*

3900 McHUGH LANE

Address *Helena*

*HELENA*

Date well started *1969 June*

completed *1969 June*

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

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

Water Use: Domestic  Municipal  Stock  Irrigation

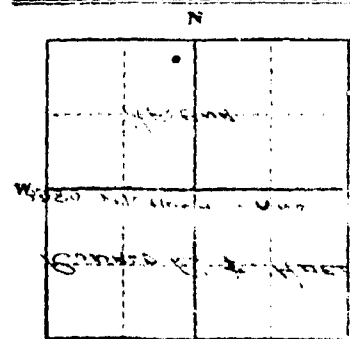
Industrial  Drainage  Other  Garden/Lawn

\*Describe

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other facts (for 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"	1 1/2"	0	32			



NE 1/4 NW 1/4 Sec 18

T. 10 N. R. 3 E. S. 10

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

Driller's Signature *[Signature]*

Driller's Address *[Address]*

LICENSE NO. *788*

10N-3W  
County *Lewis & Clark*

DRILLER'S LOG

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

Top of Ground *approx. 3800*  
(Elev. above sea level)

From (Feet)	To (Feet)	
0	5	<i>Top soil &amp; gravel</i>
5	18	<i>gravel</i>
18	32	<i>hardpan</i>
32	40	<i>clay</i>
40	50	<i>silt &amp; sand</i>
50	51	<i>gravel</i>

*53* Show exact depth of bottom

*APR 1970*

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

SEP 25 1970

County Lewis & Clark  
DRILLER'S LOG 18

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.

*Ronald E. & Anelaine H. Shields*

Owner *Mrs Shields*  
3980 McHard Lane

Address *Helena*

Date well started *1967 June*

completed *1967 June*

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

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

Water Use: Domestic  Municipal  Stock  Irrigation

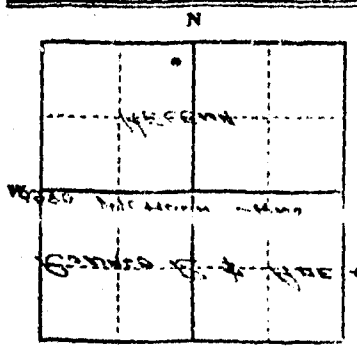
Industrial  Drainage  Other  Garden/Lawn

\*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"	1 7/8"	0	52	None		



Static water level *16* ft.  
Pumping water level *95* ft.  
at *2* gallons per minute,  
measured *20* minutes after pumping  
began.  
\*Measured from ground level.  
Well developed by *12* hours.  
Power *2 1/2* HP Pump *1/2* HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff)

NE 1/4 NW 1/4 Sec 18  
T. 10 N. R. 3 E. S. 3

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

Driller's Signature *Cherry Mountain*

Driller's Address *Cherry Mountain*

LICENSE NO. *384*

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

Top of Ground *approx. 3800*  
(Elev. above sea level)

From (Feet)	To (Feet)	
0	5	<i>2 sand &amp; gravel</i>
5	18	<i>gravel</i>
18	32	<i>shale</i>
32	40	<i>clay</i>
40	50	<i>silt &amp; sand</i>
50	53	<i>gravel</i>

Show exact depth of bottom

*17493*

6 2/2181

Indexed  
Recorded  
Compared

STATE OF MONTANA }  
COUNTY OF LEWIS & CLARK } ss

I hereby certify that the within instrument was filed in my office on this 11 day of Sept A.D. 1890 at 25 min. past 9 o'clock A M

Records of Lewis & Clark  
County, State of Montana.

John L. Smith  
County Recorder  
By C. J. [Signature]  
Deputy

2181

MONTANA WATER RESOURCES BOARD  
Water Resources Division  
Mitchell Building  
Helena, Montana 59601

Recently a copy of a groundwater appropriation form,

- GW 1, Notice of Appropriation of Groundwater
- GW 2, Notice of Completion of Groundwater Appropriation by means of Well
- GW 3, Notice of Completion of Groundwater Appropriation without Well
- GW 4, Declaration of Vested Groundwater Rights (This form is obsolete and was limited by law to use only through 1965)

was forwarded to this office by the County Clerk and Recorder.

This form is identified by

Owner Ronald R. Shields Address 3920 Drive  
3980 McHugh Lane  
Helena, Montana

Location T. 10N R. 3W Sec. 18 Document No. 212181

This is to inform you that your GW form has been received and is complete as filed.

This is a request for additional information if available. Please complete the enclosed copy by providing information where indicated, or as noted here and return the corrected copy to the Montana Water Resources Board in Helena.

Please provide the estimated annual withdrawal in gallons per year on the enclosed form.

Other.

*Completed as per request.*

*R. Shields*

RECEIVED

AUG 4 1972

DEPARTMENT OF REVENUE  
HELENA, MONTANA

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.

Ronald R. & Adelaide H. Shields

Owner Mrs. Shields  
3980 1st Avenue  
Address Helena

For Administrator's Use	
File	240181
Date	11/17/10
Time	2:25 P.M.
GW1	

Date well started 1962 Jan 1  
completed 1962 June

Type of well Shields  
(Dig, driven, bored or drilled)

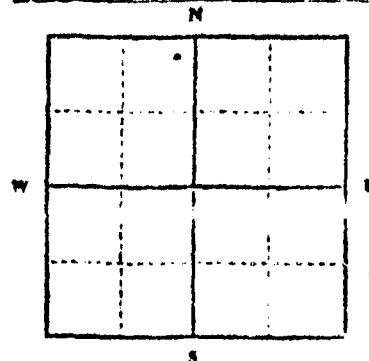
Equipment used Shields  
(Chain drill, rotary or other)

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 (see last block and Addition).

ESTIMATED ANNUAL WITHDRAWAL 75,000 gal/yr.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
6"	1 1/2"	0	52	Screen		



Static water level 10 ft.  
Pumping water level 7 ft.  
at \_\_\_\_\_ gallons per minute,  
measured \_\_\_\_\_ minutes after pumping  
began.  
Measured from ground level.  
Well developed by \_\_\_\_\_  
for \_\_\_\_\_ hours.  
Power \_\_\_\_\_ Pump \_\_\_\_\_ HP  
Remarks: (Gravel packing, cementing,  
packers, type of shut-off)

NE 1/4 NW 1/4 Sec 18  
T. 10 N. R. 3 E. S. 5 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. 388

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		
From (Feet)	To (Feet)	(Elev. above sea level) approx. 3800
0	5	soil & gravel
5	18	gravel
18	32	shale
32	40	clay
40	50	silt & sand
50	51	gravel

Show exact depth of bottom

117495

File No. \_\_\_\_\_

T. 10 N. R. 3 W.

TRIPPLICATE

County LEC

LO3

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

JUL 27 1971

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner Robt L. Smith, Jr. Address 7915 Applegate Lane (Lx)

Driller A. F. WELCH Address HELENA, MONT

Date of Notice of appropriation of groundwater \_\_\_\_\_

Date well started JUL 27 Date completed JULY 27 1971

Type of well DRILLED Equipment used CABLE TOOLS  
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

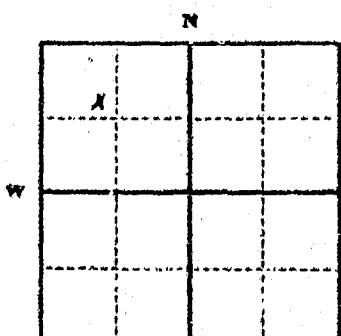
Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

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.

RED  
SHALE

Doc. No. 218994  
Filed for record  
this 19 day of July  
A. D. 19 71, at 11  
o'clock A.M.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>4 5/8</u>	<u>4 5/8</u> <u>17LB</u>	<u>0</u>	<u>115</u>		<u>110</u>	



Static Water Level for non-flowing well 25 feet.  
Shut-in Pressure for Flowing Well NO  
Pumping Water Level 118 feet  
at 20 gal. per minute.  
Discharge in gal. per min. of flowing well NO  
How Tested BAILERS  
Length of Test 2 HRS  
Remarks: (Gravel packing, cementing, packers, type of shutoff) \_\_\_\_\_

WATER  
SAND

N 1/2 NW 1/4 Sec. 18 T. 10 N. R. 3 W.  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

100  
Driller's License Number

A. F. Welch  
Driller's Signature

48801

218994

Indexed  
Recorded  
Compared *[initials]*

STATE OF MONTANA }  
COUNTY OF LEWIS & CLARK } S.

I hereby certify that the within in-  
strument was filed in my office on  
this 19 day of July  
A.D. 19 11 at 07 min past  
11 o'clock A.M.

Records of Lewis & Clark  
County, State of Montana

*[Signature]*  
County Recorder

*[Signature]*  
Deputy

F.00

CW 2

File No. \_\_\_\_\_

DUPLICATE

T. 10 N. R. 3 E. 18

County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
MAY 12 1964

**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

Owner Bob Strainer Address CLUSTER AVE

Driller A. J. Walsh Address 1000 Poplar

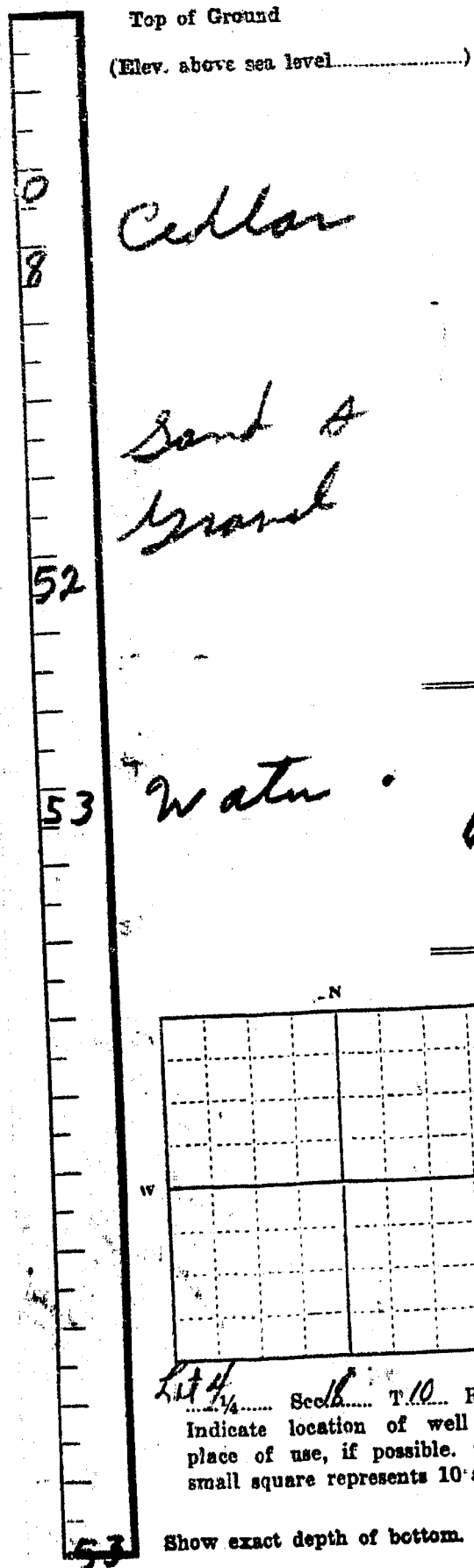
Date of Notice of Appropriation of Groundwater \_\_\_\_\_

Date well started Apr 10 Date Completed Apr 13

Type of well DRILLED Equipment Used CABLE  
(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 Casings	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 7/8	12 1/2	0	53			

Static Water Level for non-flowing Well 20 feet.

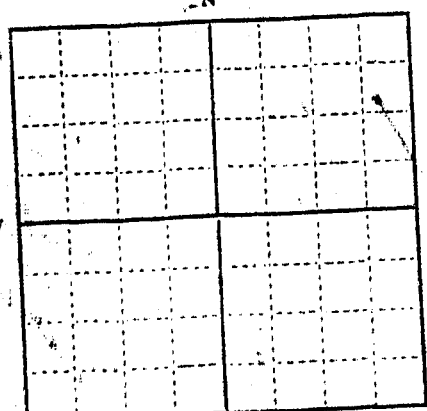
Shut-in Pressure for Flowing Well None

Pumping Water Level 15 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, 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)



Section T. 10 R. 3  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

100  
Driller's License Number

A. J. Walsh  
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.

35672



155856

Indexed  
Recorded  
Compared

STATE OF MONTANA }  
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within instrument was filed in my office on this 29th day of Apr A.D. 1969 at 35 min. past 9 o'clock A.M.

Records of Lewis & Clark  
County, State of Montana.

*John Lovick*

County Recorder

By *Lawrence C. Russell*  
Deputy

2:00

File No. ....

T 10 N R 3 W

DUPLICATE

County Lewis and Clark

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

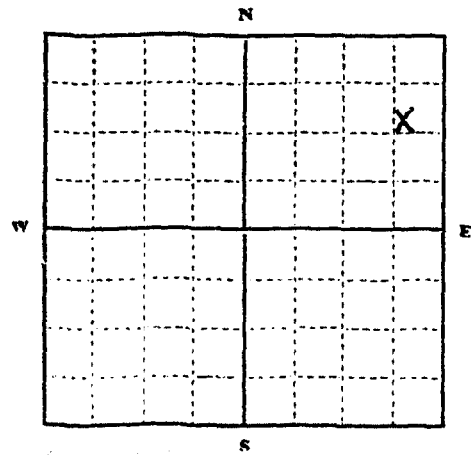
RECEIVED  
DEC 30 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

*U S Bureau of Reclamation*  
1. United States of America of Box 2563 Billings  
(Name of Appropriator) (Address) (Town)  
County of Yellowstone State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



~~Section 18~~ Sec. 18 T. 10N R. 3 W.

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

- The beneficial use on which the claim is based Domestic water supply for Project operation and maintenance office, shop and grounds. Wells constructed with Federal funds.
- Date or approximate date of earliest beneficial use; and how continuous the use has been August 1959 - well has been used continuously since that time.
- The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallons per minute.
- If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Used to irrigate the land around the Helena Valley Project Office and shop building. Land owned by the U. S. Government.
- The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Water is pumped from a six inch diameter steel casing by an electrically driven pump having an approximate discharge capacity of 10 gallons per minute.
- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started and completed in June 1959
- The depth of water table 34 feet (as of 12/2/63).
- So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Well type - domestic water supply, size - 6 inch diameter plain and perforated steel casing, Depth - approximately 60 feet.
- The estimated amount of groundwater withdrawn each year 16 acre-feet.
- The log of formations encountered in the drilling of each well if available not available
- 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 water is used in connection with the operation and maintenance of the Helena Valley Federal Reclamation Project.

United States of America

Signature of Owner *E. Richard Amis*

For Regional Director, Region 6, Bureau of Reclamation

Date December 18, 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.

14959

151302  
RECORDED  
COMPLETED

STATE OF MONTANA  
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within in-  
strument was filed in my office on  
this 26 day of Dec  
A.D. 1963 at 3:55 min past  
12 o'clock P.M.

Records of Lewis & Clark  
County, State of Montana

*William Honick*  
County Recorder

*Norma Kelley*  
Deputy

No Fee



236239

Indexed  
Recorded  
AMBER

STATE OF MONTANA  
COUNTY OF LEWIS & CLARK } S:

I hereby certify that the within in-  
strument was filed in my office on  
this 27 day of June  
A.D. 19 77 at 35 min. past  
11 o'clock A.M.

Records of Lewis & Clark  
County, State of Montana.

*John Dovich*  
County Recorder

by *Carol Buckner*  
Deputy

*A.O.D.*

519



237254

Indexed	B
Recorded	
Amended	

STATE OF MONTANA  
COUNTY OF LEWIS & CLARK

I hereby certify that the within instrument was filed in my office on this 25 day of May A.D. 1973 at 10 min past 9 o'clock A.M.

Records of Lewis & Clark County, State of Montana

John Donald  
County Recorder

by Casey Erickson  
Deputy

L.C.C.

File No. ....

T 10 N R 3 W

DUPLICATE

County Lewis & Clark

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

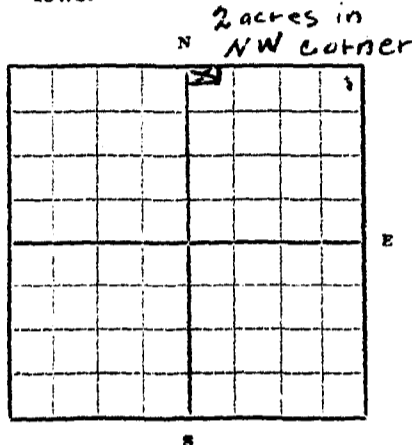
RECEIVED  
AUG 8 1963

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

1. **Everett S. Yuhas** of **Forestvale Road, Helena.**  
(Name of Appropriator) (Address) (Town)

County of **Lewis & Clark** State of **Montana.**

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



1/4 Sec. 18 T 10 N R 3 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 **House well and garden**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been **May 1949**

4. The amount of groundwater claimed (in miner's inches or gallons per minute) **24 gallons per minute by test.**

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal **jet, 1 hp pump adjacent to home.**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater **May 1949**

8. The depth of water table **about 17ft. to 24ft seasonal variation**

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater **6 inch steel casing well depth: 42 ft. from surface.**

10. The estimated amount of groundwater withdrawn each year **household and garden use.**

11. The log of formations encountered in the drilling of each well if available **sandy mixed 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. **not recorded previously.**

Signature of Owner *Everett S. Yuhas*

Date *Aug. 1, 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.

5301



146461

STATE OF MONTANA  
COUNTY OF LEWIS & CLARK

I hereby certify that the within instrument was filed in my office on this 2nd day of Aug A.D. 1963 at 8 o'clock a.m.

Records of Lewis & Clark  
County, State of Montana

*Allen D. Russell*  
County Recorder

*Sanam C. Russell*  
Deputy

2.00

Indexed  
Recorded  
Compared

J

1963 JUN 24

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1963 JUN 24

1963 JUN 24

File No. \_\_\_\_\_

T. 10 N 3 W  
County Lewis & Clark

DUPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

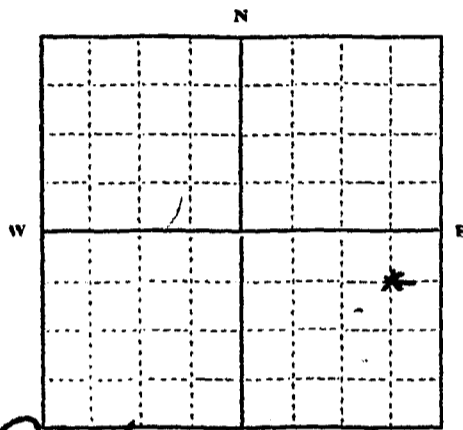
JAN 6 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. S. J. & Anna Berthiaume, of 700 Cole Helena  
(Name of Appropriator) (Address) (Town)  
County of Lewis & Clark State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Qt Sec 4 NW 4  
1/4 Sec. 19 T. 10. R. 3 W.

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

2. The beneficial use and purpose of which the claim is based Domestic

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 8 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 Used to water lawn.

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.

8. The depth of water table 7 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 well - 6" - 9 1/2' deep

10. The estimated amount of groundwater withdrawn each year 50,000.00

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 S. J. Berthiaume  
Date Dec 30 1963

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

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

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

24517

INDEXED  
RECORDED  
COMPARSED

CL

151757

STATE OF MONTANA }  
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within in-  
strument was filed in my office on  
this 3 day of Jan  
A.D. 19 64 at 10 min. past  
10 o'clock A.M.

Recorder of Lewis & Clark  
County, State of Montana

*John D. ...*  
County Recorder

By *Norman Kelley*  
Deputy

22 00 pd

File No.....

DUPLICATE

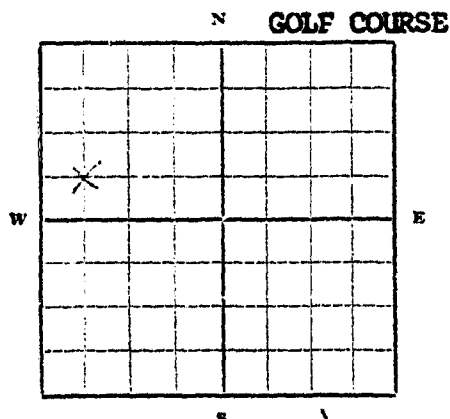
10N - 3W  
T. 10N R. 3W  
County Lewis & Clark

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED

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

1. CITY OF HELENA WATER DEPARTMENT, of CIVIC CENTER HELENA  
(Name of Appropriator) (Address) (Town)  
County of LEWIS & CLARK State of MONTANA  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 19 T9N R3W

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 .....  
Sprinkling Golf Course
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been .....  
Approx. 1952
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) .....  
500 G.P.M.
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof .....  
Municipal Golf Course Approx. 80 Acres
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal .....  
Turbine Pump

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater .....
- 8. The depth of water table ..... 100'
- 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 .....  
12" Casing Drilled Well
- 10. The estimated amount of groundwater withdrawn each year ..... Pumps - Summer Months
- 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 George Walker  
Date 3-6-62

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.

RECORDED  
INDEXED  
130039

STATE OF MONTANA } ss.  
COUNTY OF LEWIS & CLARK

I hereby certify that the within instrument was filed in my office on this 10<sup>th</sup> day of May A.D. 1962 at 10 min. past 10 o'clock A.M.

Records of Lewis & Clark  
County of the State of Montana  
John Danich  
County Recorder

L. J. R. R. R.  
Deputy  
Helena City

File No. ....

T. 10 N. R. 3 W.

DUPLICATE

County Lewis & Clark

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 10 1963

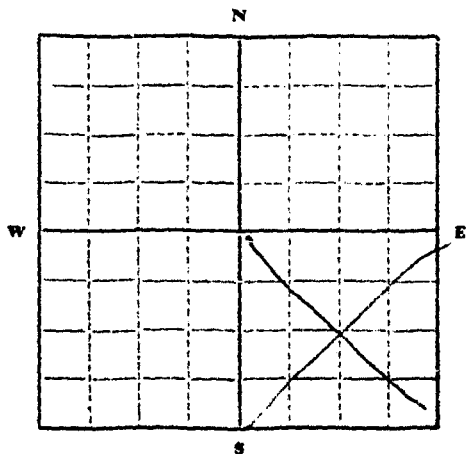
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. R. K. Hand of 1034 Prospect Ave. Helena  
(Name of Appropriator) (Address) (Town)

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



SE 1/4 Sec. 19 T. 10 N. R. 3 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 Commercial, lawn and emergency use.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been July 1952 and has been used as water supply at shop on 2100 Deign Street since that time.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 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 Lot 11, Part of lots 10 and lot 12 and lots 1, 2 & 3 Block 31 of Grand Avenue Addition to the City of Helena.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric pump from well on Lot 12.

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

8. The depth of water table 105 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 6" casing 60' Balance of well solid rock.

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

11. The log of formations encountered in the drilling of each well if available 40' Clay & Gravel Balance Solid rock and 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 Well is located on lot 12 in the SE 1/4 of Section 19 Township 10 N. Range 3 W of the Grand Avenue Addition to the City of Helena. This tract of land is all in Block 31.

Signature of Owner R. K. Hand

Date December 7, 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.

7306

150662

INDEXED  
RECORDED  
COMPARED  
AL

STATE OF MONTANA }  
COUNTY OF LEWIS & CLARK } SS.

I hereby certify that the within instrument was filed in my office on this 9<sup>th</sup> day of Oct A.D. 1963 at 15 min. past 11 o'clock AM and recorded on page \_\_\_\_\_ of \_\_\_\_\_ of \_\_\_\_\_ Records \_\_\_\_\_ and Clark County, State of Montana.

Allen L. Linnick  
County Recorder  
By Francis J. Russell  
Deputy  
\$2.00

File No. ....

T. 12 R. 30

DUPLICATE

County

Lots 5-8 Incl. Bldg 1  
Richmond Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

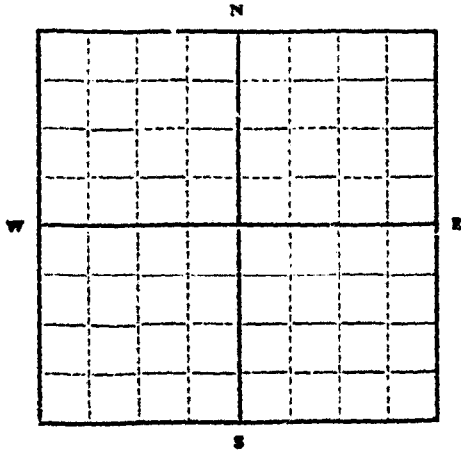
RECEIVED

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. HELENA VETERINARY SERVICE of 2930 N. MONTANA HELENA  
(Name of Appropriator) (Address) (Town)  
County of LEWIS & CLARK State of MONTANA  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



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 Necessary for conducting business

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1874 - Homestead use  
land dug 1892 to 1960 D. R. H. Jones  
1960 - D. Sheets & Partner

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 20-25 gal/min

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well with electric pump - Well located in center of lots 5, 6, 7, & 8 - Block 1 RICHMOND HILL ADJOINING TO CITY OF HELENA

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

8. The depth of water table 27-30' for surf water

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 Hand dug well 5-6 feet of water  
was 8' in diameter - full of water (1958) size - 1958

10. The estimated amount of groundwater withdrawn each year 1,620,000 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

Signature of Owner Robert D. Paine  
Date 6-6-62 D.P.

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.



Indexed  
Recorded  
COST \$1.00

#133377

STATE OF MONTANA }  
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within in-  
strument was filed in my office on  
this 7th day of June  
A.D. 1967 at 20 min. past  
8 o'clock A.M.

Records of Lewis & Clark  
County, State of Montana

*John A. Smith*  
County Recorder

*Norma Kelley*  
Deputy

*2.00*

3 19

File No. ....

T. 10N R. 3W

DUPLICATE

County LEWIS AND CLARK

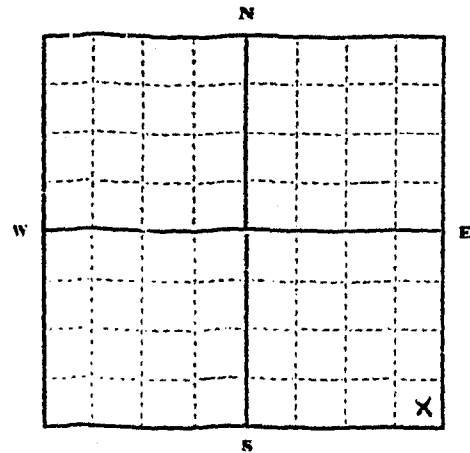
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 17 1963

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

1. Raney, Kathleen, Helen, Charles; Joint Tenants Box 354, Helena  
(Name of Appropriator) (Address) (Town)

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



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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1885 and continuous through 1909. 4 to 6 months use to date yearly for irrigation

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 50 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 3 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

~~SE~~ 1/4 ~~Sec.~~ 19 T. 10N R. 3W

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1885

8. The depth of water table 12'

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 Dug 3' diameter; 22' deep

10. The estimated amount of groundwater withdrawn each year 200,000 gal's.

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

Signature of Owner Kathleen Raney

Date Dec 11, 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.

9689

Received  
Recorded  
Prepared

CR

# 150799

STATE OF MONTANA  
COUNTY OF LEWIS & CLARK | SS

I hereby certify that the within in-  
strument was filed in the office on  
the 12<sup>th</sup> day of Dec.  
19 63 at 3:30 min. past  
9 o'clock a.m.  
Records of Lewis & Clark  
County, State of Montana

*Stewart*  
County Recorder  
by *Norman Alley*  
Deputy  
*200*

T. 10 N R. 3 W  
County Lewis & Clark

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER


Owner Lewis Al & Marion Williams Address 1023 Logan Street  
Driller Walter Riddick Address 606 N. Warren  
Date Started November 2, 1961 Date Completed Nov. 7, 1961  
Location: Sec. 19 T. 10 N R. 3 W 1/4 sec. So. E

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other: \_\_\_\_\_

Casing: 7 ft. to 68 ft. Type regular steel Size 6 inch

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. \_\_\_\_\_ to ft. \_\_\_\_\_ Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations none

Static Water level, for non-flowing well: \_\_\_\_\_ 47 feet.

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

Pumping water level 60 feet at 15 gal. per min.

How tested: jet pump

Length of test: 1 hour

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	65	Hard clay and granite boulders
65	68	Gravel
68	.	Sand
<i>Lewis A. Williams</i>		

STATE OF MONTANA )  
 County of Lewis and Clark ) ss.

On this 29th day of December, 1961, before me, Floyd O. Small, a Notary Public for the State of Montana, personally appeared Lewis A. Williams, known to me to be the person who has subscribed his name as such to the foregoing instrument, and acknowledged to me that he prepared, signed and executed said instrument.

In witness whereof I have hereunto set my hand and affixed my notarial seal on the day and month of the year first above-written.

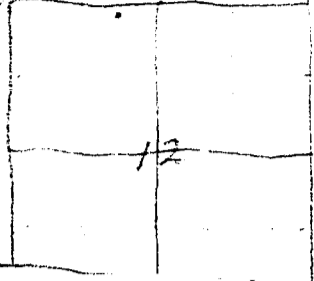
*Floyd O. Small*  
 Floyd O. Small  
 Notary Public for the State of Montana. Residing at Helena, Montana. My commission expires January 5, 1964.

(SEAL)

STATE OF MONTANA  
 COUNTY OF LEWIS & CLARK  
 I hereby certify that the within instrument was filed in my office on this 29th day of Dec. 1961.  
 9 61  
 0 DEC 1961  
 Notary of Lewis & Clark County, State of Montana  
 County Recorder  
 Deputy  
 \$1.00

#128137

Harry Anderson  
NE 1/4 NW 12 10N 2W



Stock Form—State Publishing Co., Helena, Montana—4553

T. 10N R. 2W  
County Lewis & Clark

STATE OF MONTANA  
DEPARTMENT OF GROUNDWATER CODE  
WATER CONSERVATION BOARD

20

Completion of Groundwater  
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Owner Harry Anderson Address Box 454 East Helena

Driller Robert Price Address Clancy, Mont.

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

Date well started June 3, 1970 Date completed June 6, 1970

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

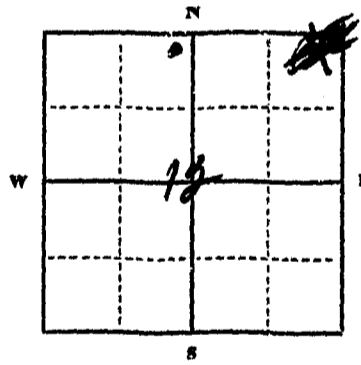
Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

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.

0 - 1 1/2' topsoil and some gravel  
1 1/2 - 23' loose large gravel  
23 - 31' very tight clay bound gravel  
31 - 33' loose gravel sand and some silt  
33 - 51' fine sand silt and some clay  
51 - 53' firm medium size gravel with some sand

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8" O.D. 15 lb.	0	53			

23' some water  
33 - 51' considerable water very silty



Static Water Level for non-flowing well 15 feet.

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

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

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

How Tested bailer

Length of Test 1 hr.

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

NE 1/4 Sec 20 T. 10N R. 2  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Doc. No. 212098  
Filed for record  
this 4 day of September  
A.D. 19 70, at 2:35  
o'clock P.M.

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

Show exact depth of bottom.

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

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

121  
Driller's License Number

Robert Price  
Driller's Signature

47493

212098

Indexed  
Recorded  
Compared

STATE OF MONTANA  
COUNTY OF LEWIS & CLARK

I hereby certify that the within instrument was filed in my office on this 4<sup>th</sup> day of Sept A.D. 1920 at 3<sup>55</sup> min. past 2 o'clock P.M.

Records of Lewis & Clark  
County, State of Montana.

*John Daniel*  
County Recorder  
By *Leah Erickson*  
Deputy  
2.00

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 Clayton Berg

Address 2801 N. Mont

Valera, Mont

Date well started May 10-72

completed May 14-72

Type of well Drilled

Equipment used Churn

Water Use: Domestic  Municipal  Stock  Irrigation

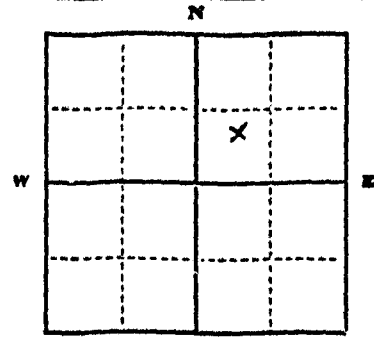
Industrial  Drainage  Other \* Garden/Lawn

\*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 200,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	1716	0	105	Linear		
					105	142



Static water level 54 ft.\*  
Pumping water level 135 ft.\*  
at 2.5 gallons per minute,  
measured 60 minutes after pumping  
began.  
\*Measured from ground level.  
Well developed by Surgery  
for 2 hours.  
Power 3/4 HP Pump 3 HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff)

maple street  
heist field Addition  
T. 10 N. R. 3 E.  
Block 15 Lot 18N

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

Driller's Signature Wesley Lindsay

Driller's Address Clancy Montana

LICENSE NO. 38

RECEIVED  
JUL 9 1972  
County Levi 20  
10N-3W  
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	6	Tephrit & gravel
6	38	Clay & gravel
38	49	Broken Red Rock
49	65	Clay & Sand of Broken Shell
65	142	Shale - Red Rock

142 Show exact depth of bottom

50,285



226415

Index  
Recorded  
Compared

STATE OF MONTANA,  
COUNTY OF LEWIS & CLARK } S.

I hereby certify that the within in-  
strument was filed in my office on  
this 22 day of June  
A.D. 1922 at 10 min. past  
2 o'clock P.M. and record-  
ed on page      of Book       
of      Records of      and  
Clark County, State of Montana.

*John D. ...*  
County Recorder

*W. P. Thomas*  
Deputy

200

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

Owner Clayton Berg 59601  
 Address 2801 N. Mont. Helena, MT  
 Location T.     R.     Sec.      
 Doc. No. 226415

As the Administrator of the Groundwater Code for the State of Montana, please take note of the following special instructions, in order to properly protect your groundwater right.

Special Instructions:

Please provide, as indicated in red on the attached form, the complete location of the well by Township, Range and Section.

Thank you.

RECEIVED

AUG 28 1972

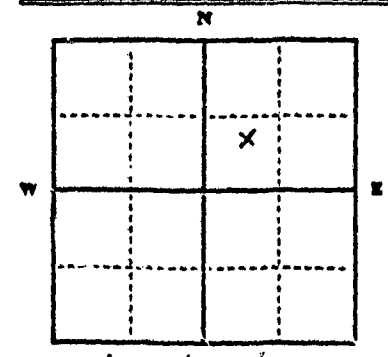
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

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 200,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	1716	0	105	Linear		
					105	142



Static water level 54 ft.\*  
 Pumping water level 135 ft.\*  
 at 25 gallons per minute, measured 6.2 minutes after pumping began.  
 \*Measured from ground level.  
 Well developed by 5.2 hours.  
 Power 3.5 Pump 3 HP  
 Remarks: (Gravel packing, cementing, packers, type of shutoff) .....

10N R. 3W E  
Sec. 20  
lots 1, 2, 7, 8, 9, 16, 17, 18  
in block 15

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

Driller's Signature Clayton Berg  
 Driller's Address Clayton Berg

LICENSE NO. 14 Show exact depth of bottom

There isn't a range no.

50,285

File No. \_\_\_\_\_

Harshfield Addn. 2W

DUPLICATE

County L B C

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
MAR 22 1965  
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)

(See Leisner)

0 to 17 clay and boulders  
Owner Ran Jet Car Wash Address Helena, Montana

Driller Walter Bidcock Address Helena, Montana

17 to 31 clay  
Date of Notice of Appropriation of Groundwater 2-11-65

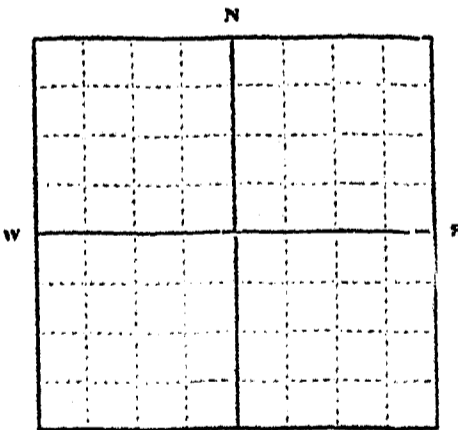
Date well started 2-8-65 Date Completed 2-11-65

51 to 42 cement gravel  
Type of well Drilled Equipment Used Churn Drill  
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

making 2gpm per min at 42  
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.

total gal per min.	Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
					Kind Size	From (Feet)	To (Feet)
20	6"	15#	0	47			



Lots 1 & 2 Blk. 9, Harshfield Addn.

1/4 Sec. 2 T. 14 N. R. 20 W.  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom. 50 ft

Static Water Level for non-flowing Well 14 feet.

Shut-in Pressure for Flowing Well \_\_\_\_\_

Pumping Water Level 7 feet at 20 gal. per minute.

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

How Tested Bailer Length of Test 2 hrs.

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

Montana Lic. 48  
Driller's License Number

Walter Bidcock  
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.

39021

165687

INDEXED  
RECORDED  
COMPAROR

STATE OF MONTANA }  
COUNTY OF LEWIS & CLARK } ss

I hereby certify that the within in

original was filed in my office on

the 16th day of May

1885 at 3:30 pm

at Helena, Mont.

Witness my hand and seal of office

this 16th day of May 1885.

*John L. Smith*  
County Clerk

2101

File No.....

T. 10 R. 3

DUPLICATE

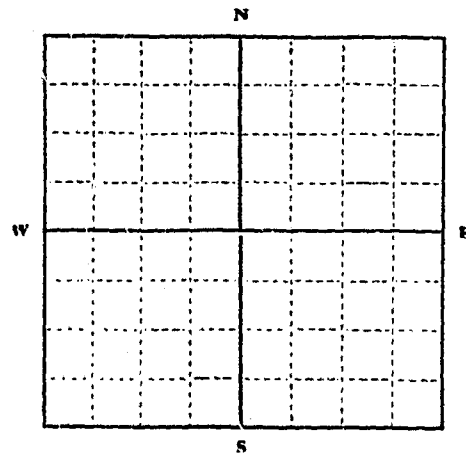
County Lewis and Clark

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 10 1963

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

1. Andrew Sherry and Rilla Sherry, of 1700 Cherry Street Helena, Montana  
(Name of Appropriator) (Address) (Town)  
County of Lewis and Clark State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



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 household and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been #1 - before 1920 and #2 - 1955.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 gallons per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
One acre - 1700 Cherry Street, Tract 289' x 210'  
NW 1/4 P.M. #19  
Andrew Sherry and Rilla Sherry

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal by two pumps  
#1 well - 1/2 h.p. pump - #2 well - 1 h.p. pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater #1 well - completed by predecessors sometime prior to 1920.  
#2 well commenced and completed by applicants in 1955.

8. The depth of water table #1 well - 20 - 30 feet #2 well - 20 - 30 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 #1 well - hand dug, 22 feet deep and 3 feet in diameter.  
#2 well - drilled 6" casing - 54 feet deep.

10. The estimated amount of groundwater withdrawn each year one million gallons per year.

11. The log of formations encountered in the drilling of each well if available no log available.

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

Signature of Owner Andrew Sherry  
Rilla Sherry

Date November 30, 1963

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

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

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

150 610

Indexed  
Recorded

STATE OF MONTANA }  
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within in-  
strument was filed in my office on  
this 6th day of June  
A.D. 1963 at 25 min past  
10 o'clock A and record-  
ed on page \_\_\_\_\_ of Book \_\_\_\_\_  
of \_\_\_\_\_ Records of Lewis and  
Clark County, State of Montana.

*John J. Conish*  
County Recorder

By *Louise C. Runge*  
Deputy

\$ 2.00

File No. \_\_\_\_\_

T. 10N R. 3W

DUPLICATE

County 300

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 13 1964

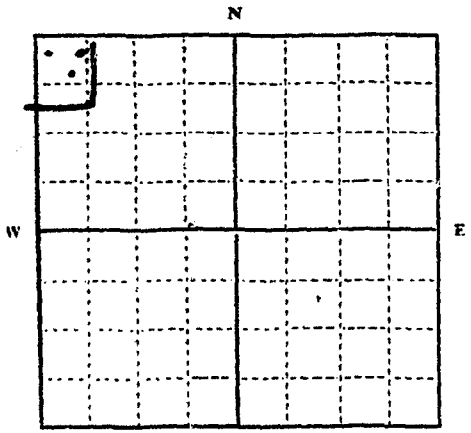
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Don A. & Ruth L. Barnes, of YARK ROUTE HELENA  
(Name of Appropriator) (Address) (Town)

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



2. The beneficial use on which the claim is based

DOMESTIC & GRAVEL OPERATION

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

1955 CONTINUOUS

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

#1 200 GPM #2 80 GPM #3 300 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 APPLICABLE

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

PUMP

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

#1 MAY/55 - MAY/55 #2 SEPT/56 - SEPT/56 #3 JULY/58 - JULY/58

8. The depth of water table

20'

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

#1 5" x 10' #2 8" x 10' #3 5" x 35'

10. The estimated amount of groundwater withdrawn each year

50,000,000 Gallons

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

NOT AVAILABLE GRAVEL & CLAY

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

NOT AVAILABLE

Signature of Owner Ruth L Barnes  
Don Barnes

Date Dec 30, 1963

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

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

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

31366

152306

Indexed  
Recorded  
Completed

STATE OF MONTANA }  
COUNTY OF LEWIS & CLARK } SS.

I hereby certify that the within instrument was filed in my office on this 10 day of June A.D. 1967 at 40 min. past 11 o'clock A.M.

Records of Lewis & Clark  
County, State of Montana.

*Richard J. ...*  
County Recorder

By M. L. ...  
Deputy

*rd/pl.*





236468

STATE OF MONTANA  
COUNTY OF LEWIS & CLARK

I hereby certify that the within in  
strument was filed in my office of  
this 29 day of June  
A.D. 19 73 at 3:41 min past  
10 o'clock A.M.

Records of Lewis & Clark  
County, State of Montana

*John Joseph*  
County Recorder  
*Carl ...*  
Deputy

2.00

SEARCHED  
SERIALIZED  
INDEXED  
*ke*

1973 JUN 29 10 30 AM  
LEWIS & CLARK COUNTY

138500

200

1973 JUN 29 10 30 AM



236466

Indexed  
Serialized  
Numbered *KC*

STATE OF MONTANA }  
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within in-  
strument was filed in my office on  
the *29* day of *June*  
A.D. 19 *73* at *37* min. past  
*10* o'clock *A.M.*

\_\_\_\_\_  
Recorder of Lewis & Clark  
County, State of Montana

*Robert A. English*  
*Robert A. English*  
Recorder

*Bill*

236466  
INDEXED  
SERIALIZED  
NUMBERED  
JUN 29 1973  
10:37 AM

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.

County Lewis & Clark

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.

23

Owner Mrs. Dan Busch

Address Canyon Ferry Rd.

Helena, Mont.

Date well started Apr. 16, 1972

completed Apr. 19 '72

Type of well Drilled

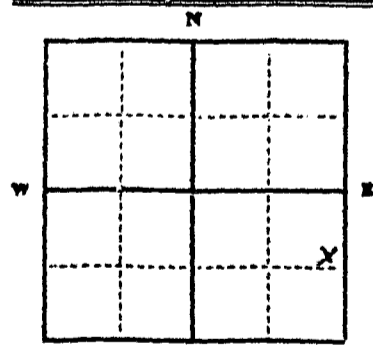
Equipment used Churn

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 80,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
6"	1716	0	51	none		



Static water level 36 ft.\*  
Pumping water level 42 ft.\*  
at 20 gallons per minute,  
measured 60 minutes after pumping began.  
\*Measured from ground level.  
Well developed by barber  
for 2 hours.  
Power Electric Pump 1/2 HP  
Remarks: (Gravel packing, cementing, packers, type of shutoff)

1/4 Sec. 23  
T. 10 N. R. 3 W.  
S E  
W

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

Driller's Signature Wesley Lindsey

Driller's Address Clancy Montana

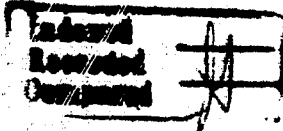
LICENSE NO. 38

Top of Ground		(Elev. above sea level)
From (Feet)	To (Feet)	
0	5	top soil & gravel
5	23	gravel & sand
23	38	clay & gravel
38	43	sand
43	49	clay
49	51	gravel & sand

51 Show exact depth of bottom

50,629

226114



STATE OF MONTANA  
COUNTY OF LEWIS & CLARK

I hereby certify that the within in  
instrument was filed in my office on  
this 12 day of April  
A.D. 1922 at 6:10 P.M. past  
1 o'clock of 234 and record-  
ed on page      of Book  
of Records of Lewis and  
Clark County, State of Montana.

*Richard Daniel*  
County Recorder

*J. P. Thomas*  
Deputy  
10200

GW 3

File No. ....

DUPLICATE

T. 10 N R. 3 W  
L. E. C.  
County

RECEIVED  
JUL 11 1963

STATE ENGINEER

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

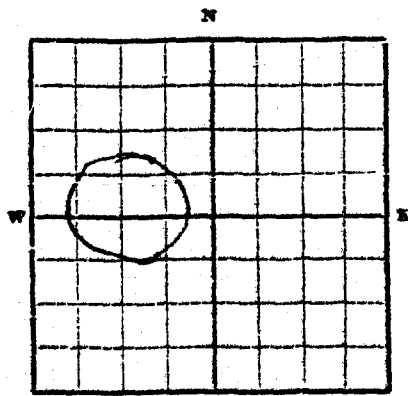
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 10 July 63  
Owner Ronald Roney Address Canyon Ferry Rd, Helena  
Contractor (if any) .....

Address of Contractor .....

Date Started 1961 Date Completed 1962

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. gravel pit which has filled with water - 20 feet deep



1/4 Sec. 23 T. 10 R. 3

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 .....

Plan to use as a farm pond and for irrigation during dry years. Have pumps that will pump 100 inches.

Signature of Owner D. Roney

Date 10 July 63

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

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

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

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

145-848

STATE OF MONTANA  
COUNTY OF LEWIS & CLARK 35

I hereby certify that the within in-  
strument was filed in my office on  
this 10th day of July  
A.D. 1903 at 3:30 min past  
8 o'clock A.

Indexed  
Recorded  
Compared

Records of Lewis & Clark  
County State of Montana

*John Daniel*  
County Recorder  
*George C. Russell*  
County

2100

# 145-847





236475

STATE OF MONTANA }  
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within in-  
strument was filed in my office on  
this 29 day of June  
A.D. 1973 at 10 min. past  
10 o'clock A.M.

Records of Lewis & Clark  
County State of Montana

Richard L. Daniel  
County Clerk

Carol Peterson  
Deputy

RLD

Indexed  
Recorded  
Filed

10

Vertical text and markings on the right side of the document, including a large 'X' and some illegible characters.

RECEIVED

County Lac 3

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

JUL 3 1973

DRILLER'S LOG

MONTANA DEPARTMENT OF  
NATURAL RESOURCES AND CONSERVATION

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

**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.

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
		Sand + Gravel

Owner Helena Sand + Gravel

For Administrator's Use

Address Box 797

File 236472

HELENA MONT

Date May 29, 1973

Date well started May 3-73

GW 1 (C-38 P.12)

completed May 9-73

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

Equipment used Back-Ho Cham  
(Churn drill, rotary or other)

Water Use: Domestic  Municipal  Stock  Irrigation

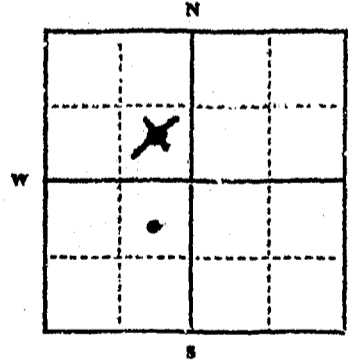
Industrial  Drainage  Other \* Garden/Lawn

\*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). Washing Gravel

ESTIMATED ANNUAL WITHDRAWAL 60,840,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>50" x 100"</u>	<u>0</u>	<u>-</u>	<u>-</u>			



Static water level 30 ft.\*  
Pumping water level 120 ft.\*  
at 1200 gallons per minute,  
measured 1 minutes after pumping  
began.

\*Measured from ground level.  
Well developed by \_\_\_\_\_  
for \_\_\_\_\_ hours.  
Power Electric Pump 120 HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff)

SE 1/4 NW 1/4 Sec 23  
T. 10 R. 3

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

Driller's Signature L. [unclear]

Driller's Address Box 797  
Helena Mont. LICENSE NO.

80' Show exact depth of bottom

54831

236472

INDEXED  
RECORDED  
2/10/23

STATE OF MONTANA  
COUNTY OF LEWIS & CLARK

I hereby certify that the within in-  
strument was filed in my office on  
this 29 day of June  
A.D. 1923 at 9:30 min. per  
10 o'clock A.M.

Records of Lewis & Clark  
County, State of Montana

*John D. ...*  
County Recorder

*Carl ...*  
Deputy

100

*Handwritten notes and signatures on the right side of the page, including a large 'X' and various illegible scribbles.*



236473

Indexed  
Recorded  
Filed

STATE OF MONTANA }  
COUNTY OF LEWIS & CLARK } SS

herby certify that the within in-  
strument was filed in my office on  
this 27 day of June  
A.D. 1923 at 39 min. past  
10 o'clock A.M.

Records of Lewis & Clark  
County, State of Montana

*John Dovich*  
County Recorder

*Carol Erickson*  
Deputy

*200*

200,000



Indexed  
Recorded  
Compared

220325

STATE OF MONTANA  
COUNTY OF LEWIS & CLARK

hereby certify that the within in-  
strument was filed in my office on  
the 9th day of Sept  
A.D. 19 71 at 2:30 min. past  
1 o'clock P.M.

Records of Lewis & Clark  
County, State of Montana.

*John Daniel*  
County Recorder

*Lois Stapp*  
Deputy  
i. 2.00



File No.....

T. 10N R. 3W

DUPLICATE

County Lewis and Clark

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED

Declaration of Vested Groundwater Rights

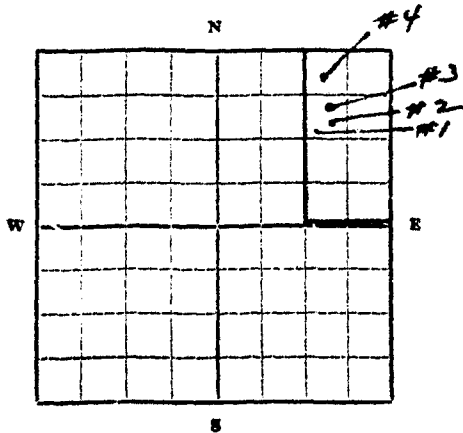
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Montana Meat Company of Helena of Helena  
(Name of Appropriator) (Address) (Town)

County of Lewis and Clark State of Montana

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



E 1/4 NE 1/4 Sec. 23 T. 10N R. 3 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 is packing plant and industrial use, agricultural, watering livestock, irrigation and domestic.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Well #1, continuous since 1917; Well #2, continuous since 1917; Well #3, continuous since 1935; Well #4, continuous since 1938 to recent date.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Well #1, 40 gal. per minute; Well #2, 16.66; Well #3, 58.33; Well #4, 33.33 - temporarily discontinued

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 60 acres in E 1/4 NE 1/4 Section 23, Township 10 N., R. 3 W. -- Owner, Montana Meat Company of Helena.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal By power operated pumps through well casing.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Well #1, completed in 1917; Well #2, 1917; Well #3, 1935; Well #4, 1938, exact dates of commencement and completion lost in antiquity.

8. The depth of water table 20 to 35 feet depending on time of year.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Well #1, 6" casing - 98 feet deep; Well #2, 8" casing, 96 feet deep; Well #3, 6" casing - 98 feet deep; Well #4, 6" casing - 98 feet deep.

10. The estimated amount of groundwater withdrawn each year Well #1, 21,900,000; Well #2, 8,760,000; Well #3, 30,660,000; Well #4, 17,520,000.

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

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.

ATTEST:

W. W. Anderson Secretary

MONTANA MEAT COMPANY OF HELENA

By: J. E. Lamm President

Date 11/14/63

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.

139577



STATE OF MONTANA  
COUNTY OF LEWIS & CLARK } SS.

I hereby certify that the within in-  
strument was filed in my office on  
this 17<sup>th</sup> day of Jan  
A.D. 1963 at 05 min. past  
10 o'clock A.M.

Records of Lewis & Clark  
County, State of Montana

*Robert Lovick*  
County Recorder

By *Lawrence C. Russell*  
Deputy

2:00

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

Owner Marion D. Aaby  
 Address Box R37 - East Helena, MT 59635  
 Location T. 10N. R. 30W. Sec. 24  
 Doc. No. 229,585

24

As the Administrator of the Groundwater Code for the State of Montana, please take note of the following special instructions, in order to properly protect your groundwater right.

Special Instructions: *Please provide, as indicated in red on the attached form, the claimed groundwater use.*

*Thank you.*

*Sent on 1/18/73*

51,735

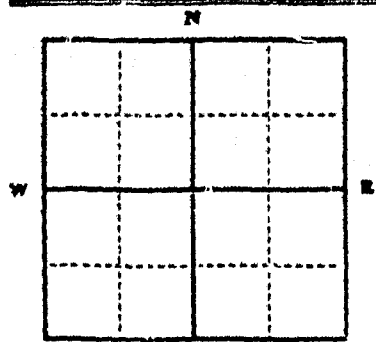
Equipment used \_\_\_\_\_ (Cable drill, rotary or other)

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)	TEMPERATURES		
				Kind	From (Feet)	To (Feet)
6 5/8"	6 5/8" 20LB	0	52			



Static water level 20 ft.\*  
 Pumping water level 42 ft.\*  
 at 30 gallons per minute,  
 measured 60 minutes after pumping  
 began.  
 \*Measured from ground level.  
 Well developed by BAILER  
 for 2 hours  
 Power \_\_\_\_\_ Pump \_\_\_\_\_ HP  
 Remarks: (Gravel packing, cementing,  
 packers, type of shutoff) \_\_\_\_\_

NE 1/4 NE 1/4 Sec. 24  
T. 10 N. R. 30 W.

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

Driller's Signature A. J. Welch  
 Driller's Address 5820 N. MONT  
HELENA LICENSE NO. 100

52 Show exact depth of bottom

51,735

County Lewis & Clark

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.

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.

Owner MARION D. HADY

Address Box 837  
EAST HELENA, MONT

Date well started JULY - 2  
completed JULY - 472

Type of well DRILLED

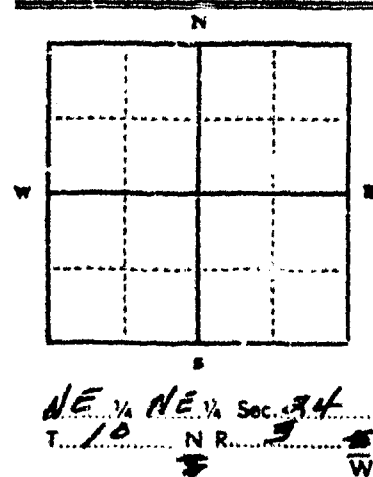
Equipment used CABLE TOOLS

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	From (Feet)	To (Feet)
<u>6 5/8</u>	<u>6 5/8</u> <u>20 LB</u>	<u>0</u>	<u>52</u>			



Static water level 20 ft.\*  
Pumping water level 47 ft.\*  
at 30 gallons per minute,  
measured 60 minutes after pumping  
began.

\*Measured from ground level.  
Well developed by PAILER  
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 D. J. Welch  
Driller's Address 5820 N. MONT.  
HELENA LICENSE NO. 100

Top of Ground		(Elev. above sea level)
From (Feet)	To (Feet)	
<u>0</u>	<u>45</u>	<u>SAND &amp;</u>
		<u>GRAVEL</u>
<u>45</u>	<u>52</u>	<u>SAND &amp;</u>
		<u>ROCK</u>
		<u>52 WATER</u>

52 Show exact depth of bottom