3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner FRED LAMPING

Address [illegible]

Date well started MAR. 27

completed MAR. 27-72

Type of well ~~[illegible]~~ DRILLED
(Dug, driven, bored or drilled)

Equipment used CABLE TOOLS
(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

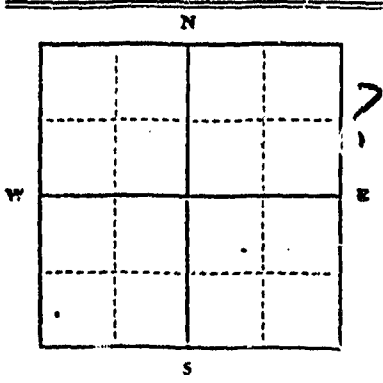
*Describe .....

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 ..... ?

For Administrator's Use
File 210250
Aug 19 1972 9:35 a.m.
GW 1

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6 5/8	6 5/8 16LB	0	53			



SW ¼ [illegible] ¼ Sec. 12
T. 16 N/S R. 3 E/W

Static water level 35 ft.*
~~Pumping water level~~ ..... ft.*
at ..... ~~gallons per minute~~
measured ..... minutes after pumping began.
*Measured from ground level.
Well developed by BAILER
for 1 hours.
Power..... Pump..... HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) .....

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

Driller's Signature R. F. Welch

Driller's Address 5820 N. MONT.

HELENA LICENSE NO. [illegible]

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	35	ROCK, SAND & GRAVEL
35	53	SAND & GRAVEL
	53	WATER

53 Show exact depth of bottom

Approved Stock Form—State Publishing Co., Helena, Montana—4192

File No.

T. 10 N R. 3 W

County Jefferson

DUPLICATE

RECEIVED
JAN 9 1964
STATE ENGINEER

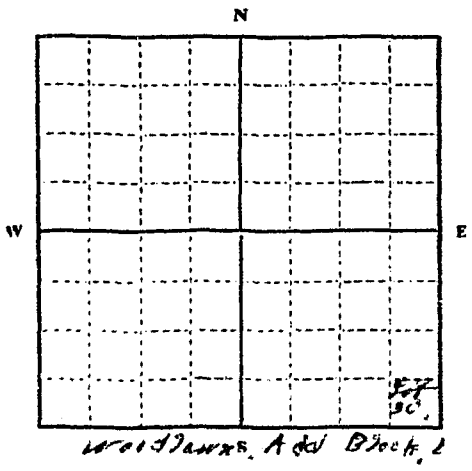
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Charles WALTER WARREN, of Woodlawn R.F.D. 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:



Woodlawns Add Block 2

¼ Sec. 13 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 on which the claim is based
Household & YARD

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1946 Continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 6 GALLONS Per 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
Elec. Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
1946

8. The depth of water table 63

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 63 ft

10. The estimated amount of groundwater withdrawn each year 96 000

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

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 Charles W. Warren

Date 12/30/63

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.

28917

151987

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS.

I hereby certify that the within instrument was filed in my office on this 7 day of [illegible] A.D. 19 [illegible] at 22 min. past 1 o'clock P M.

Records of Lewis & Clark County, State of Montana

County Recorder

By M. Lowe
Deputy

$ 2.00 pd.

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
SEP 5 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Lewis + Clark

13

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: C.B. (Joe) Whitson

Address E. Helena
Box # 507

Date well started April 6-71
completed April 10-71

For Administrator's Use
File 228302
Aug. 30, 1972 - 1:25 p.m.
GW 1

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

Equipment used Churn (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☒ Stock ☐ Irrigation ☐

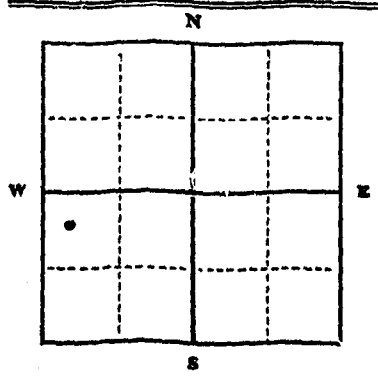
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL 200,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	8" 25#d	0	90	5/16 x 1½	60	62



SE ¼ SW ¼ Sec. 13
T. 10 (N) S R. 3 E (W)

Static water level 16 ft.*
Pumping water level 80 ft.*
at 80 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)

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

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	Topsoil + gravel
6	18	gravel (coarse
18	38	Hard pan
38	46	Clay
46	60	Sand + Clay
60	65	gravel
65	85	Sand + silt
85	92	gravel

90 Show exact depth of bottom

51,292

228302

Indexed
Recorded
Mailed

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within instrument was filed in my office on this 30 day of Aug A.D. 1972 at 2.5 min. past 1 o'clock PM. and recorded on page ___ of Book ___ of ___ Records of Lewis and Clark County, State of Montana.

County Recorder

By Deputy

$2.00

3 G'W 2 Revised 1969
STATE PUBLISHING COMPANY

10N-3W

County Lewis & Clark

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

RECEIVED APR 26 1971

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Steve Yuricic

Address East Helena Montana

Date well started Mar 8-71

completed Mar 10-71

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

Equipment used Churn (Churn drill, rotary or other)

For Administrator's Use
File 216407 April 5, 1971 8:40 AM
GW 1

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

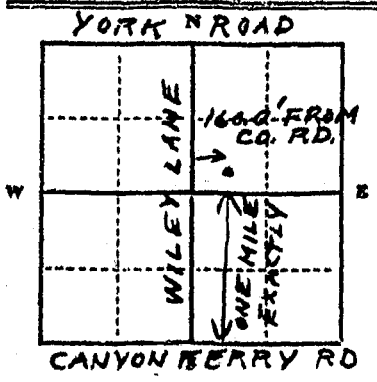
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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 Size	From (Feet)	To (Feet)
6	17 LB	0	56	none		



NW ¼ ¼ Sec. 13
T 10 N R 3 E/W

Static water level 21 ft.*
Pumping water level 48 ft.*
at 25 gallons per minute, measured 60 minutes after pumping began.
*Measured from ground level
Well developed by Bailer
for 2 hours.
Power Elec Pump 1/2 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 Wesley Lindsay

Driller's Address Clancy Montana

LICENSE NO. 38

DRILLER'S LOG

13

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	5	topsoil & gravel
5	19	gravel
19	32	clay & gravel
32	48	clay & hardpan
48	55	sand & clay
55	57	gravel

57 Show exact depth of bottom

48377

216407

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 3 day of Apr A.D. 19 71 at 40 min. past 8 o'clock A M.

Records of Lewis & Clark County, State of Montana.

County Recorder

by Carol Crookston
Deputy

Fee

GW 2

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

File No.

STATE WATER CONSERVATION BOARD
RECEIVED
AUG 10 1965

T. 10 N. R. 3 W. 14

DUPLICATE

County Lewis & Clark

LOG

REFERRED TO

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

14

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Layne Well No. 1

Owner City of East Helena Address East Helena, Mont.

Driller Layne-Minnesota Co. Address Minneapolis, Minn.

Date of Notice of appropriation of groundwater

Date well started Feb.13,1965 Date completed Mar.22,1965

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

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

Top of Ground

(Elev. above sea level 3796.17)

Rocks, sand & boulders

37 Rock, sand & boulders with streaks clay

46 Hardpan & rock

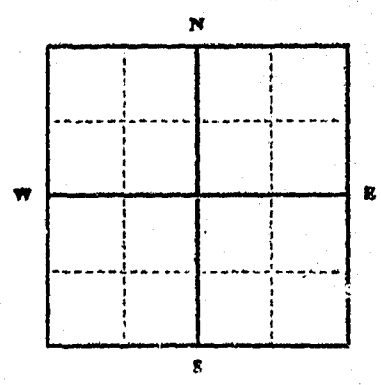
51 Rock, sand & boulders with streaks of clay

109 5"

Show exact depth of bottom.

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
Min. 38" dia	48"OD (cemented in 56"Hole)	0	30			
	16" 3/8" wall	0	90			
	16"OD stainless steel shutter screen #3	90	110			



SE ¼SE Sec. 14 T. 10 R. 3W.
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 34.11 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 54.1 feet at 600 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Turbine Pump

Length of Test 12 hrs

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

Outer casing cemented in. Double gravel wall wall with 28" Dia. divider casing

(Continue on reverse side)

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

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.

76
Driller's License Number

Layne-Minnesota Co.

Driller's Signature D. C. Vry

39414

#170401

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within instrument was filed in my office on this 6th day of August A.D. 19 65 at 25 min. past 1 o'clock P M.

Records of Lewis & Clark County, State of Montana

County Recorder

By Norma Kelley Deputy

No Fee

Indexed
Recorded
Compared

RECEIVED

GW 2 Revised 1959
STATE PUBLISHING COMPANY

County Lewis & Clark

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

RECEIVED
JUL 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Don Didrikson

Address 929 N. Jackson
Helena, Montana 59601

Date well started 6/20/73
completed 6/20/73

For Administrator's Use
File 53677
2373
GW 1 145 gpm

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

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

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☒

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

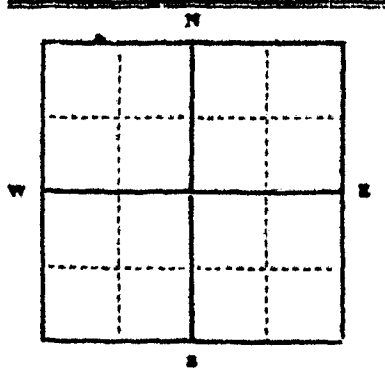
ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6 5/8" od x .250	0'	54'	cutting torch	49'	54'

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0'	3'	Top soil
3'	25'	Gravel, sand, water
25'	33'	Sand, clay, water
33'	38'	Heaving sand, water
38'	45'	Coarse sand, clay
45'	50'	Clay, some water
50'	54'	Water, sand

54' Show exact depth of bottom



NW ¼ NW ¼ Sec. 14
T. 10 N R. 3 E
S W

Static water level 40 ft.*
Pumping water level 25 ft.*
at 50 gallons per minute,
measured minutes after pumping began.
*Measured from ground level.
Well developed by bailing one hour.
for 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 Bailey & O'Keefe Drilling Company
Hal Bailey

Driller's Address Box 1136 East Helena,
Montana 59635 LICENSE NO. 248

55834

236677

Indexed
Accepted
Compared

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } ss

I hereby certify that the within instrument was filed in my office this 23 day of July A.D. 19 73 at 900 min. past 1 o'clock P M.

Records of Lewis & Clark County, State of Montana

Helen Rowinski
County Recorder

By Carol Erickson
Deputy

$ 2.00

RECEIVED

JUL [illegible] 1973

MONTANA DEPARTMENT OF NATURAL
RESOURCES AND CONSERVATION

INDUSTRIAL DOMESTIC

MINING EXPLORATION
DRILLING

O'KEEFE DRILLING CO.
2804 Harvard
BUTTE, MONTANA 59701

Mr. Don Didrikson
929 North Jackson
Helena, Montana 59601

Envelope Postage date
Jun 30.

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

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.

Owner A. T. Hermanson

Address 240 Canyon Ferry Rd
Helena Mont

Date well started July 1917
completed Aug 1917

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

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

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

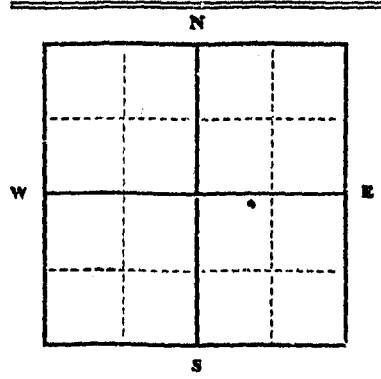
*Describe

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 300 000

For Administrator's Use	
File	236511
	June 29, 1973
GW 1	11:21 AM

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6"	0	150'	Unknown		



NW ¼ SE ¼ Sec. 14
T. 10 N/S R. 3 E/W

Static water level .....ft.*
Pumping water level .....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 shutoff) .....

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

Driller's Signature Walter Marion

Driller's Address Deceased

..... LICENSE NO.....

By Art Hermanson

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)	
		Unknown
		150'

Show exact depth of bottom

54 756

236511

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } S:

I hereby certify that the within in-
strument was filed in my office on
this 29 day of June
A.D. 19 73 at 01 min. past
11 o'clock A M.
Records of Lewis & Clark
County, State of Montana.

Helen Donisch
County Recorder

By Carol Erickson
Deputy

2.00

10N-3W

County L+C

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

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 Art Hermanson

Address 2910 Canyon Ferry Rd
Helena Mont

Date well started 1898

completed 1898

Type of well Hand dug 55 ft
(Dug, driven, bored or drilled)

Equipment used
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

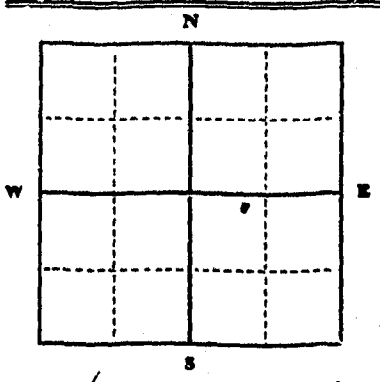
*Describe

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 350,000 gal.

For Administrator's Use
File 356510
June 29, 1973
GW 1 11:16 A.M.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
4 ft	4 ft Brick	0	45	None		



NW ¼ SE ¼ Sec. 14
T. 10 N (S) R. 3 E (W)

Static water level 30 ft.*
Pumping water level 30 ft.*
at 50 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 shutoff)

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

Driller's Signature Hugh J. Pagan

Driller's Address Missoula

LICENSE NO.

By Art Hermanson

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)	
		Unknown

55 Show exact depth of bottom

54,755

236510

Indexed
Checked
Mailed

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } S:

I hereby certify that the within in
strument was filed in my office on
this 28 day of June
A.D. 19 73 at 16 min. past
11 o'clock A.M.
Records of Lewis & Clark
County, State of Montana

John Rompel
County Recorder

By Carol Erickson
Deputy

2.00

RECEIVED

JUL 3 1973

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

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.

Owner Art Hermanson

Address Helena Vally
Helena, Mt

Date well started 10 May 1973
completed 30 May 1973

For Administrator's Use
File 236394
June 27, 1973
GW 1 9:19 A.M.

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

Equipment used Churn
(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☒

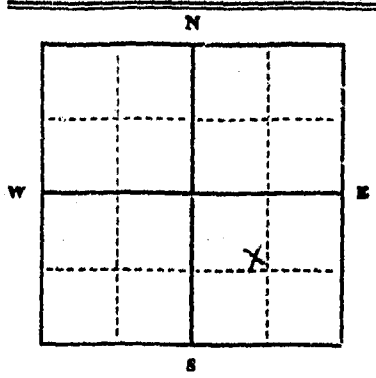
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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 2,000,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
12"	5,216	0	95		38	68
					74	90



NW ¼ SE ¼ Sec. 14
T. 10 N R. 3 E
S W

Static water level 26 ft.*
Pumping water level 85 ft.*
at 600 gallons per minute,
measured minutes after pumping began.
*Measured from ground level.
Well developed by Air
for hours.
Power Elec Pump 30 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 Wesley Lindsay

Driller's Address Clancy Montana

LICENSE NO. 38

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	Topsoil & Gravel
6	18	Clay & Gravel
18	38	Gravel
38	82	Sand & Gravel
82	100	Clay & Gravel

95 Show exact depth of bottom

54,803

226394

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } ss

I, hereby certify that the within instrument was filed in my office on this 20 day of May A.D. 19 73 at 2 o'clock P.M. and recorded in Book 25 Clerk Records of Lewis & Clark County, State of Montana.

County Clerk and Recorder
By Deputy

3 GW 3 Revised 1969
2057—1500—1/71

County Lewis + Clark

14

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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 may be returned.

For Administrator's Use

File 236379

June 29, 1973

GW 1 9:04 A.M.

Owner Roy F + Joan M. Kimble

Address 5495 No. Mont. A. Helena, Mt.

Contractor (if any) unknown

Address of Contractor —

Date Started unknown Date Completed unknown

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.) Developed Spring

2. Means of withdrawing water (gravity, pump, canal, etc.) Gravity + Pump

3. Depth of water table 6 to 8'

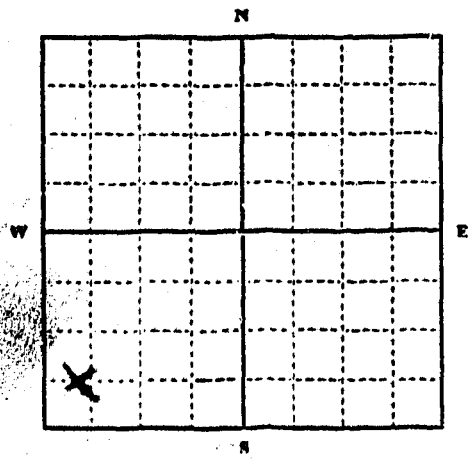
4. Use of the water Irrigation

5. Amount of groundwater claimed (in miner's inches or gallons per minute) 5

6. If used for irrigation, give number of acres and description of land 10 acres

7. Estimate amount of water used each year 30 acre Feet.

8. Months of year spring flows 12 months.



SW ¼ SW ¼ Sec. 14

T. 10 N R. 3 W

INDICATE POINT OF APPROPRIATION AND PLACE OF USE, IF POSSIBLE. Elevation of spring, if known or estimated 3865

Signature of Owner Joan M Kimble
Roy F. Kimble

Date 6-29-73

5474

236379

Indexed
Recorded
Mailed

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } S:

I hereby certify that the within in
strument was filed in my office on
this 29 day of June
A.D. 19 73 at 04 min past
9 o'clock A M
Records of Lewis & Clark
County, State of Montana

Helen Donich
County Recorder

Carol Erickson
Deputy

2.00

GW 2

STATE WATER CONSERVATION BOARD

File No.

MAY 16 1966

T. 10N. R. 3 W.

DUPLICATE

Bill McDermott
Butte McNulty
Coyle Morton
Darlington Sullivan
Dickert

County L & C

14

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level 4,000 ft.

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

0 to 23 ft. sand and gravel

23 to 37 clay and gravel

37 to 46 gravel water

course gravel 44 to 46

total depth 46 ft.

Show exact depth of bottom.

Owner Gene A. Picotte Address Helena, Montana

Driller Walter Riddock Address Helena, Montana

Date of Notice of appropriation of groundwater April 4, 1966

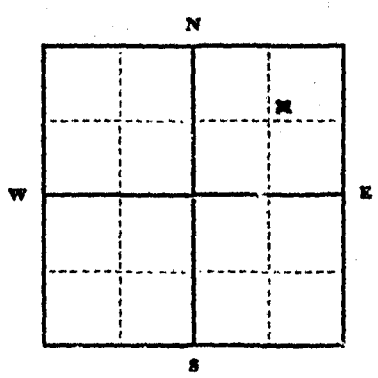
Date well started March 28, 66 Date completed April 2, 66

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	8"19# - 6"	0	46'		None	



NE ¼ Sec. 14 T. 10N. R. 3W.
Indicate location of well and place of use, if possible. Each small square represents 40 acres

Static Water Level for non-flowing well 37 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 36 feet at 16 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)

(Continue on reverse side)

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

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

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

Montana No. 40
Driller's License Number

Walter Riddock
Driller's Signature

41051

177783

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 10 day of May A.D. 19 66 at 25 min past 11 o'clock A.M.

Recorder of Lewis & Clark County, State of Montana.

County Recorder

Deputy

2 ad

G

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

14

File No.....

T 10N R 3 W

DUPLICATE

County Lewis and Clark

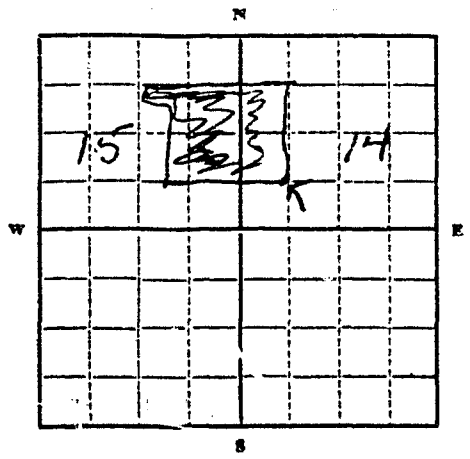
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. John E. Rogan, of York Rt. 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:



NW, SW ¼ Sec. 14 T 10N R 3W

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
Irrigation and Live Stock.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been June 15, 1948.
Used annualy ever since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1,150 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
156 acers farm land on Rogan Ranch.

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 Started digging March 28, 1948 and finished about April 15, 1948.

8. The depth of water table Well is 50' deep and averages 30' of water when not pumping. Pumps down to about 6'.

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 feet steel casing, 50 feet deep.

10. The estimated amount of groundwater withdrawn each year 1,615,680,000 gal.

11. The log of formations encountered in the drilling of each well if available
Sand 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 Refer to Soil Conservation records.

Signature of Owner John E. Rogan
Date 1-9-63

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.

3275.

139309

Indexed
Recorded
Verified

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within instrument was filed in my office on this 7th day of June A.D. 19 63 at 3 min. past 2 o'clock P.M.

Records of Lewis & Clark County, State of Montana.

John Lovick
County Recorder

By [illegible] Russell
Deputy

2.00

RECEIVED
OCT 1957
STATE ENGINEER

T. 10 N. R. 3 West 14
County Lewis & Clark

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner John J. & Emma Rogan Address Helena Mont., Rt. 1

Driller Rogers Mining Co. Address Helena Mont.

Date Started Feb 20th 1949 Date Completed March 25th 1949

Location: Sec. 14 T. 10 N. R. 3 W. ¼ sec. S.E. Corner of NW¼ SW¼

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

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☒

Industrial ☐ Drainage ☐ Other:

Casing: 52 ft. to 52 ft. Type Steel Size 5 ft. diameter

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or ~~Screened~~: Ft. 37 to ft. 52 Ft. to ft.

Type of screen or perforations 2 inch holes at several intervals

Static Water level, for non-flowing well: 38 feet.

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

Pumping water level 38 feet at 1040 gal. per min.

How tested: Pump

Length of test Six weeks

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

The reason for this well being 5 ft. in diameter is that the gravel failed to hold, so had to undercut to the clay hard pan separating the surface water from the second strata water

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
1	32	Loose gravel
32	44	Clay.
44	52	Coarse gravel.

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 5th day of Sept A.D. 1957 at 5 minutes past 8 o'clock A.M. and duly recorded in Book ___ of Records of Lewis and Clark County State of Montana

Fletcher Thielen Rauver
County Recorder

By [signature] Deputy

$ 5.00

84996

HARRY STAHLER
BOX 260
EAST HELENA

9-10-74

County Lewis & Clar. 14

STATE PL

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 Harry Stahler

Address Canyon Ferry Rte.
Helena, Montana

Date well started June 16, 1970
completed June 18, 1970

For Administrator's Use
File 213569 November 2, 1970 1:20 P.M.
GW 1

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

Equipment used churn (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☐

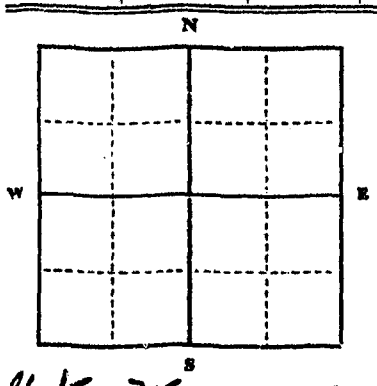
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	17 lb.	0	57	none	none	none



Static water level 14 ft.*
Pumping water level 50 ft.*
at 20 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by pump
for 2 hours.
Power Elec. Pump ½ HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

S½SE¼NE¼ Sec. 14
T. 10 N/S R. 3 West/W

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

DRILLER'S LOG

licate the character, color, thickss of strata such as soil, clay, sand, ivel, 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	pit
6	18	gravel (coarse)
18	29	hardpan
29	38	clay & gravel
38	51	hardpan
51	58	clay
58	60	gravel & clay
60	63	gravel & sand

57 Show exact depth of bottom

47752

213569

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 2 day of May A.D. 19 70 at 20 min. past 1 o'clock M.

Records of Lewis & Clark County, State of Montana.

Clerk & Recorder

By Carol Erickson
Deputy

2.00

10N-3W

County LEWIS & CLARK

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

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 PAUL L. STAV

Address 229 WALLACE
HELENA, MONTANA

Date well started APR. 26, 1971
completed APR. 29, 1971

For Administrator's Use
File 217545 May 25, 1971 10:25 AM
GW 1

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

Equipment used CHURN (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☒

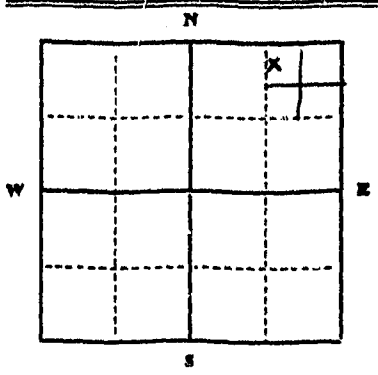
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition). IRRIGATING 10 ACRES

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"	17lb	0	77	5/16 x 1½	52	54



NE ¼ NE ¼ Sec. 14
T. 10 (N) S R. 3 E (W)

Static water level 16 ft.*
Pumping water level 60 ft.*
at 60+ gallons per minute,
measured 120 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)

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

DRILLER'S LOG

14

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	5	TOPSOIL & GRAVEL
5	28	GRAVEL (LARGE)
28	48	HARD PAN
48	52	SAND
52	55	GRAVEL
52	72	SAND & SILT
72	76	GRAVEL

76 Show exact depth of bottom

48547

217545

Indexed
Recorded
Compared

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. 19 71 at 26 min. past 10 o'clock A.M.

Records of Lewis & Clark County, State of Montana.

Helen Donald
County Recorder

By Carol Cushman
Deputy

2.00

4—Helena Independent Record

File No. .....

DUPLICATE

T 10 N R 3 W

County Lewis & Clark

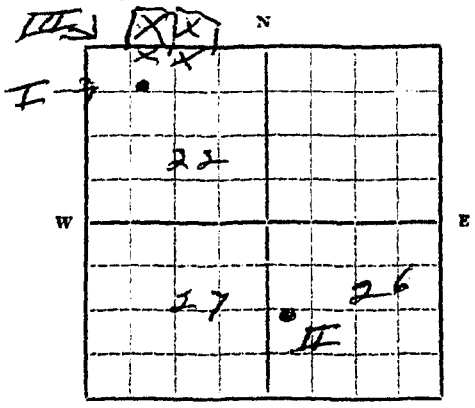
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUL 11 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. I James Bompart, of C.F. Pte 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: Sec 15 SE¼SW¼, SW¼SE¼



I NE¼ NW¼ Sec 22 T10N R3W

II NW¼ SW¼ Sec. 26 T10N 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 Livestock Household and Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been I 1909 Continuous II Spring running since 1909. used for beneficial purposes

4. The amount of groundwater claimed (in miner's inches or gallons per minute) I 10 gals per minute II 10 gals per min III 3 acre ft per year for 60 acres

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 Sub-irrigation, water table 4 ft 7 in north 2 ft from surface. Sec 15 SE¼, SW¼. I NW¼ of SE¼ Sec 22 NE¼ NW¼ James Bompart owner

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal I Jet Pump II Gravity Spring III by Capillary attraction

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater I September 1909 II Jan to July 1909. III Capillary attraction fall

8. The depth of water table I 18 ft. II 3½ ft. III 20 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 I Well 33 ft deep diameter 5 ft 18 ft water II 3½ x 4 x 15 ft deep trench 3½ ft water to overflow III through soil by capillary attraction II small jet pump also.

10. The estimated amount of groundwater withdrawn each year I 2,190,000 gal II 4,580,000 gal III 4 acre ft per acre

11. The log of formations encountered in the drilling of each well if available I Clay II Shale. III Clay gravel 4 ft 7 in to water table on sec line between sec 15 and 22 T10N R3W.

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 James Bompart

Date May 10 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.

4988.

145504

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 27th day of June A.D. 19 93 at 2:00 min. past ___ o'clock ___ M.

___ Records of Lewis & Clark County, State of Montana.

Lorraine C. Runkle
County Recorder

Lorraine C. Runkle
Deputy

2:00

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

File No.....

T. 10 N. R. 3 W.

DUPLICATE

County Lewis and Clark

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

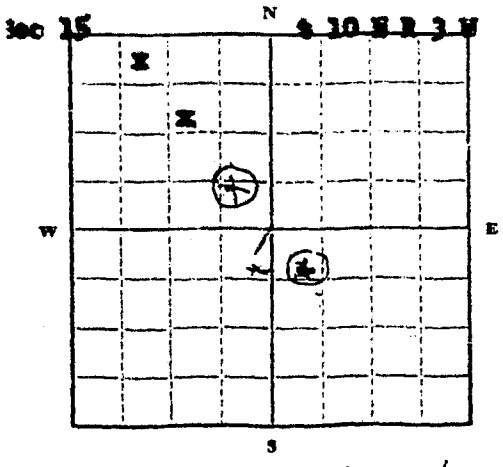
RECEIVED
JAN 2 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. B. H. Lichtwardt, of Helena Route 1 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:



.....¼..... Sec. 15 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
irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
August 1945
Other wells 1865 to 1930

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 125 miners inches
Approximately 100 gpm 15

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
Approximately 100 acres
Sec. 15 T 10N R 3 W

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater March 1945 June 1945

8. The depth of water table 70 ft. wide 78 ft. deep

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 125 inches for several days

11. The log of formations encountered in the drilling of each well if available dug with a dragline

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 B H Lichtwardt

Date 12-10-63

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.

17502

Indexed
Recorded
Compared

151483

STATE OF MONTANA
COUNTY OF LEWIS & CLARK

I hereby certify that the within instrument was filed in my office on this 30 day of Dec. A.D. 19 63 at 4 min. past 4 o'clock P.M.

Records of Lewis & Clark County, State of Montana.

Helen Kamish
County Recorder

By Norma Kelley
Deputy

$ 2.00

GW

Approved Stock Form—State Publishing Co., Helena, Montana—60876

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
JAN 3 1964
STATE ENGINEER

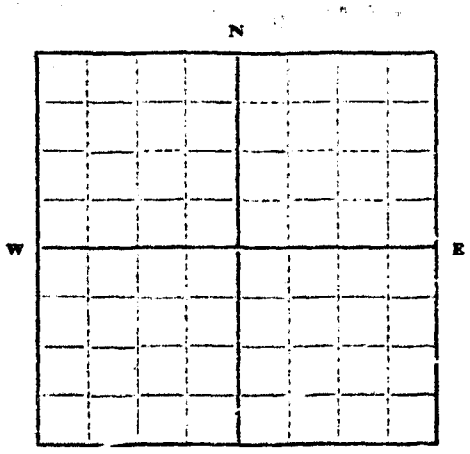
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. B. H. Lichtwardt of Route 1 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:



15 & 16

.....¼..... 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 underground use irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Since 1954, continuous

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

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 Approximately 200 acres in sec 15 & 16 T 10 N R 3 W

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

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

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.....

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 B. H. Lichtwardt

Date 12/10/63

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.

1750'

Indexed
Recorded
Compared

151482

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within instrument was filed in my office on this 30 day of Dec. A.D. 19 63 at 5 min. past 4 o'clock P.M.

Records of Lewis & Clark County, State of Montana.

Helen Zanich
County Recorder

By Norma Kelley
Deputy

2.00

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED

10N-3W

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.

Owner Mrs. Edna Lichtwardt

Address 2805 York Rd.

Helena, Montana 59601

Date well started Dec. 30, 1972

completed Dec. 30, 1973

For Administrator's Use
File 234679
May 11, 1973
GW 1 10:05 A.m.

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

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

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

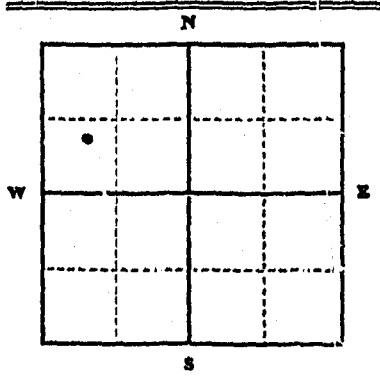
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6 In.	17 Lb.	0	110	Torch	107	105



NW ¼ SW ¼ Sec. 15
T. 10 N/S R. 3 E/W

Static water level Flowing Well ft.*
Pumping water level 12 ft.*
at 25 gallons per minute,
measured minutes after pumping began.
*Measured from ground level.
Well developed by Bailing &
for 2 hours. Pumping
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 John Johnston

Driller's Address 558 Griffin Rd. Helena, Montana

LICENSE NO. 165

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	5	Top soil
5	18	Gravel
18	25	Sand
25	36	Clay
36	41	Sand
41	45	Hard Pan
45	68	Sand
68	78	Brown Clay
78	80	Sand
80	91	Gray Clay
91	98	Sand
98	100	Hard Pan
100	108	Coarse gravel water
108	110	Clay
110		Water

110 Show exact depth of bottom

53,170

234679

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } s

I hereby certify that the within instrument was filed in my office on the [illegible] day of [illegible] A.D. 19[illegible] at [illegible] min past [illegible] o'clock [illegible] M

Records of Lewis & Clark County, State of Montana

County Recorder

By [illegible]
Deputy

GV

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

File No.

T. 10 N R. 3 W

DUPLICATE

County Lewis And Clark

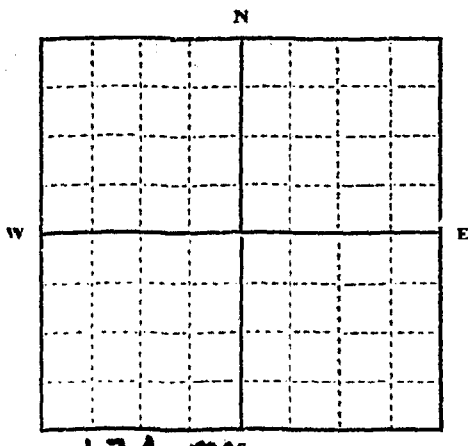
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 6 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Wilford R Glasscock (Name of Appropriator), of P.O. Box 138 (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:



1.3 Acres
NW 1/4 Sec. 15 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 Domestic

3. Date or approximate date of earliest beneficial use; and how continuous the use has been March 1967, Continuously since

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 8 gal. per hr.

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 lawn and garden 1 Self,

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pump with electric ~~[illegible]~~ well

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

8. The depth of water table 32 inches

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 inches Diameter by 42 ft deep.

10. The estimated amount of groundwater withdrawn each year unknown

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

Signature of Owner Wilford R. Glasscock

Date Dec 31, 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.

27059

151899

STATE OF MONTANA
COUNTY OF LEWIS & CLARK

I hereby certify that the within instrument was filed in my office on this 6 day of Jan. A.D. 19 64 at 30 min. past 3 o'clock P M.

Records of Lewis & Clark County, State of Montana.

Helen Jones
County Recorder

By M. Loss
Deputy

$2.00

Federal Recorded Transferred

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED

10N-3W

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.

Owner Evelyn Cooper

Address Box 415
Thompson Falls, Mont.

Date well started May - 1962

completed MAY - 1962

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

Equipment used Churn (Churn drill, rotary or other)

For Administrator's Use	
File	236543
	6-29-73
GW 1	11:53 A.M.

Water Use: Domestic ☑ Municipal ☐ Stock ☐ Irrigation ☐

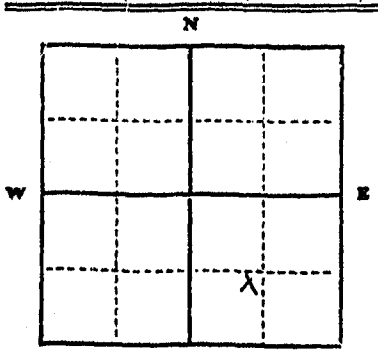
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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 Size	From (Feet)	To (Feet)
6"	1716	0	41		NONE	



Lot 17 SE ¼ Sec. 16
T. 10 N R. 3 W

Static water level 8 ft.*
Pumping water level 25 ft.*
at 25 gallons per minute, measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Bailer
for 2 hours.
Power Elec. Pump 1/2 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 Wesley Lindsay

Driller's Address Clancy Montana

LICENSE NO. 38

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	3	Top soil
3	18	gravel
18	28	Clay & gravel
28	33	Clay
33	39	Sand
39	41	gravel

41 Show exact depth of bottom

55662

236543

Indexed
Received
Compared

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within instrument was filed in my office on this 29 day of June A.D. 19 73 at 53 min. past 11 o'clock A M

Records of Lewis & Clark County, State of Montana.

County Recorder

By Carol Erickson
Deputy

2.00

Approved Stock Form—State Publishing Co., Helena, Montana—42324

File No. .....

T. 10 R. 3

County L & C

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

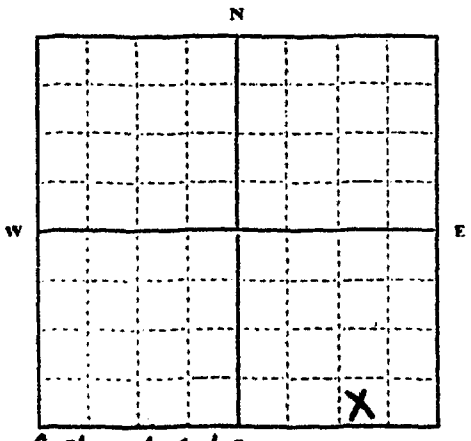
JAN 6 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I ROBERT S & EVA L. CRAWFORD, of YORK RTE (Address) HELENA (Town)
(Name of Appropriator)

County of LEWIS & CLARK State of MONT.
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE¼ S½ SE¼
NW¼ ¼ Sec. 16 T. 10 R. 3

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

Block 24 Helena School Tracts

2. The beneficial use on which the claim is based HOUSEHOLD + Garden & Lawn

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1956 - CONTINUOUS

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 gal. per 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 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 14 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 6 in. CASING - 50 FT. DEEP

10. The estimated amount of groundwater withdrawn each year N. A.

11. The log of formations encountered in the drilling of each well if available Sand & Gravel & Clay Formation

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 Robert S Crawford / Eva L Crawford

Date December 31, 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.

24516

Indexed
Recorded
Compared

151754

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS.

I hereby certify that the within instrument was filed in my office on this 3 day of Jan A.D. 19 64 at 06 min. past 10 o'clock A M.

Records of Lewis & Clark County, State of Montana

County Recorder

By Myrtle Lass
Deputy

$2.00 pd

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Lewis & Clark

10

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 Bill Fredericks

Address Custer Ave East

Helena, Montana

Date well started April 21,1972

completed April 23, 1972

For Administrator's Use
File 227363
July 27, 1972 10:00 a.m.
GW 1

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

Equipment used Churn (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

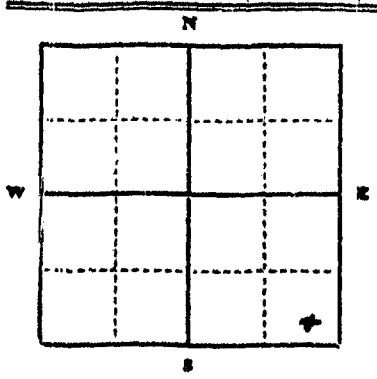
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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"	6" 15 lb.	1 ft.	71.8'			



SE ¼ SE ¼ Sec. 16
T. 10 N R. 3 E
S W

Static water level 40.0 ft.*
Pumping water level 48.0 ft.*
at 25 gallons per minute,
measured 10 minutes after pumping began.
*Measured from ground level.
Well developed by Bailing
for 6 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)
Gravel pack from 71.0' to 75.0'

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

Driller's Signature Leonard C. Mathews

Driller's Address 220 C Custer Ave. West

Helena, Montana 59601 LICENSE NO. 225

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)	
0.0'	1.0'	Brown silt
1.0'	25.8'	Tan gravelly silty clay
25.8'	46.5'	Brown gravelly clay
46.5'	47.2'	Brown fine sand with 4 to 5 GPM
47.2'	51.0'	Brown gravelly clayey fine sand
51.0'	58.0'	It. Tan gravelly sclAY
58.0'	59.0'	Tan gravelly sand with 5 GPM
59.0'	70.5'	Tan silty sandy clay
70.5'	71.8'	Brown silty gravelly sand with 25 GPM
71.8'	75.0'	Gravel pack
75.0'		Bottom of well

LOESS

75.0' Show exact depth of bottom

51,037

227363

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 27 day of July A.D. 19 72 at 10 min. past 10 o'clock A M. and recorded on page ____ of Book ____ of ____ Records of Lewis and Clark County, State of Montana.

Helen Kornick
County Recorder

By [illegible]
Deputy

2.00

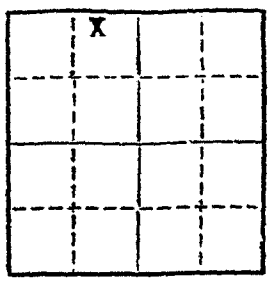
RECEIVED
OCT 1 1957
STATE ENGINEER

T 10 N R 3 W 16

County Lewis & Clark

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG



Owner James L. Lemon Address York Rt. Helena

Driller Walter Riddock Address Helena Montana

Date Started 4-23-51 Date Completed 5-1-51

Location: Sec. 16 T10N R 3W ¼ sec SE¼ OF SW¼

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

Water use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]

Industrial [ ] Drainage [ ] Other:

Casing: 00 ft. to 60 ft. Type Well Casing Size 6in

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. None to ft. Ft. to ft.

Type of screen or perforations Foot valve with strainer

Static Water level, for non-flowing well: 30 ft feet.

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

Pumping water level 45 feet at 25 gal. per min.

How tested: Bailer

Length of test 3 Hours

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

This water is produced from the bottom of the well from a course gravel.

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	55	Clay mixed with gravel
55	60	Water gravel loose

Indexed
Recorded
Compared

85518

State of Montana
County of Lewis & Clark } ss.
I hereby certify that the within instrument was filed in my office on this 3rd day of May A.D. 1957 at 1 minute past 1 o'clock P.M. and recorded in Book ___ of ___ records of Lewis and Clark County, State of Montana

Florence Thorsten Fauver
County Recorder
By [signature]
Deputy

GW

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

File No.....

T. 10 N R. 3 W

DUPLICATE

County Lewis and Clark

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

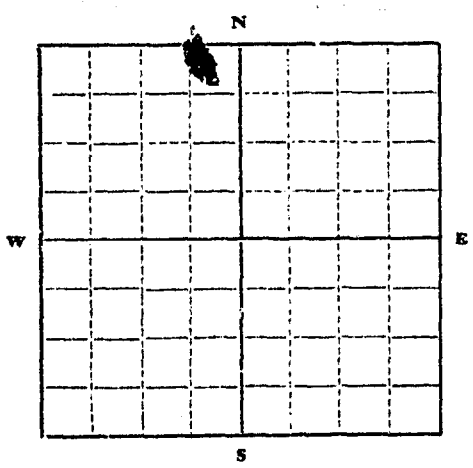
RECEIVED
JAN 2 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. B. H. Liebhardt, of Route 1 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:



SW ¼ NW ¼ Sec. 16 T. 10 R. 3

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 Livestock and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been April 1944 and following years
Other well at least 40 years

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 150 miners inches

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 S. W. ¼ of N. W. ¼ of Sec 16 approximately 80 acres.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pomona Turbin pump and other smaller pumps

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater March 1944 completed in April 1944

8. The depth of water table Approximately 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 12 inch casing 80 foot depth
8 inch turbin pump

10. The estimated amount of groundwater withdrawn each year 2 second feet - 30 to 40 days per year

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

Signature of Owner B H Liebhardt

Date 12-10-63

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.

17500

151481

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 30 day of Dec. A.D. 19 63 at 4 o'clock P. M.

Recorder of Lewis & Clark County, State of Montana.

Eileen Dominick
County Recorder

By Norma Kelley
Deputy

2.00

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
JUL 3 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Lewis & Clark 16

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 Mrs Dean Mack

Address 3155 Meagher Rd
Helena, Mont. 59601

Date well started June 8-70
completed June 11-70

For Administrator's Use
File 236403
June 29, 1973
GW 1 9:20 A.M.

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

Equipment used Churn (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

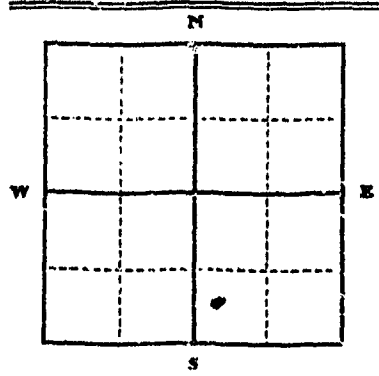
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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"	17 lb	0	33		none	



SW ¼ SE ¼ Sec. 16
T. 10 N. N R. 3 E W

Static water level 12 ft.*
Pumping water level 25 ft.*
at 15 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)

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

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	12	gravel & Clay
12	21	Clay
21	28	Sand
28	30	Clay & Gravel
30	31	Sand
32	34	gravel

33 Show exact depth of bottom

54812

236403

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } ss.

I hereby certify that the within instrument was filed in my office on this 27 day of June A.D. 19 73 at 38 min. past 9 o'clock A.M.

Records of Lewis & Clark County, State of Montana.

Helen Daniels
County Recorder.

By Carol Erickson
Deputy

2.00

Indexed
Recorded
Abstracted

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
JUL 2 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Lewis 16

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 Mr. J Mack

Address 3175 Meagher Rd
Helena Mont

Date well started May 13-71
completed May 14-71

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

Equipment used Churn (Churn drill, rotary or other)

For Administrator's Use	
File	236365
	June 29, 1973
GW 1	3:00 p.m.

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☒

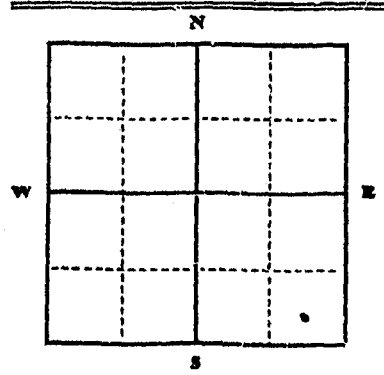
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*Describe .....

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

ESTIMATED ANNUAL WITHDRAWAL 100,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	17lb	0	28	None		



SE ¼ SE ¼ Sec. 16
T. 10 N/S R. 3 E/W

Static water level 9 ft.*
Pumping water level 20 ft.*
at 20 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) .....

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

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	Clay & gravel
6	18	Hardpan
18	23	Clay
23	27	Sand
27	28	gravel

28 Show exact depth of bottom

54793

236265

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within instrument was filed in my office on this 28 day of June A.D. 19 73 at 2 min. past 1 o'clock P M.

Records of Lewis & Clark County State of Montana

County Recorder

By Carol Erickson
Deputy

2.00

RECEIVED

10N-3W

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Lewis & Clark 16

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner J. H. MACK

Address 3155 MEAGHER Rd
Helena, Montana

Date well started MAY 10 1967
completed MAY 17, 1967

For Administrator's Use	
File	236390
	June 29, 1973
GW 1	9:15 a.m.

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

Equipment used Auger
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

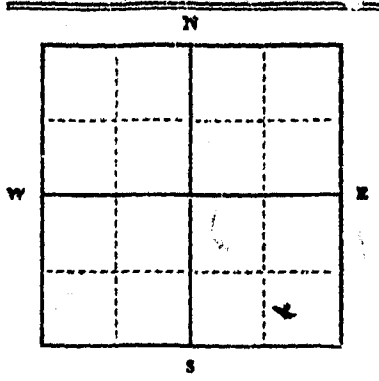
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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"	8"	7'	25'	NONE		



SE ¼ SE ¼ Sec. 16
T. 10 N. R. 3 E
S W

Static water level 9' ft.*
Pumping water level 23 ft.*
at 15 gallons per minute,
measured 25 minutes after pumping began.
*Measured from ground level.
Well developed by Pump
for 56 hours.
Power Electric Pump 3 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 J. H. Mack (OWNER)

Driller's Address 3155 MEAGHER Rd.
Helena, Mont. 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) _____

From (Feet)	To (Feet)	

25' Show exact depth of bottom

54813

236390

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within instrument was filed in my office on this 29 day of June A.D. 19 72 at 151 min. past 9 o'clock A M.

Records of Lewis & Clark County, State of Montana.

John Denniel
County Recorder.

By Carol Erickson
Deputy

2.00

T. 10 N R. 3 W 16

County Lewis & Clark

RECEIVED

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Albert M. Muffick Address 17 South Dakota Helena Montana

Driller Walter Riddock Address Helena Montana

Date Started 8-23-59 Date Completed 8-27-59

Location: Sec. 16 T. 10 N R. 3 W ¼ sec. SE¼ SE¼ SE¼

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

Water use: Domestic [X] Municipal [ ] Stock [X] Irrigation [X]

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 60 ft. Type BLACK IRON Size 6"

Casing: ft. to ft. Type Size

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

Type of screen or perforations

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

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

Pumping water level feet at gal. per min. 20

How tested: Bailer

Length of test

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

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	20	Clay & Gravel
20	26	Hard Pan Clay
26	47	Clay & Gravel, Small flow of Water
47	55	Clay & Sand
55	60	Water Gravel & Sand Course

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS.

I hereby certify that the within instrument was filed in my office on this 16 day of Aug A.D. 1960 at 3 o'clock P.M. min. past

Records of Lewis & Clark County, State of Montana

By [illegible] County Recorder
Deputy

Lee

113046

G'

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

File No.....

T. 10 N R. 3 W

DUPLICATE

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

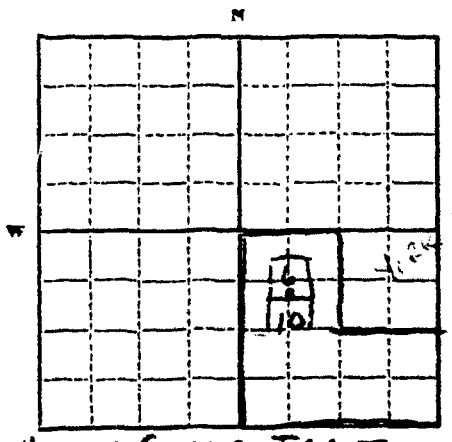
RECEIVED
JUN 11 1962
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. ROBERT D. PAINTER, of RT 1 (Address) HELENA (Town)
(Name of Appropriator)

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



HELENA SCHOOL TRACT NW 1/4 OF SE 1/4 AND S 1/2 OF SE 1/4 Sec. 16 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 on which the claim is based HOUSEHOLD, GARDEN, LANDSCAPE, PASTURE

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1963 proposed

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 gals/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 Lots 6, 10 Helena School Tract (comprising of NW 1/4 of SE 1/4 and S 1/2 of SE 1/4 of Sec. 16 - 10 N 3 W

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well on Lots 6, 10

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Proposed for 1963

8. The depth of water table Est 40-50' Drilled to 74' 11-20-62 dry

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 80' —

10. The estimated amount of groundwater withdrawn each year 1,500,000 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. Painter

Date 6-6-62

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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

845.

Indexed
Recorded
Compared

#133376

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS.

I hereby certify that the within instrument was filed in my office on this 7th day of June A.D. 19 62 at 8 o'clock 15 min. past a M.

Records of Lewis & Clark County, State of Montana.

Helen Dominick
County Recorder

Dennis Kelley
Deputy

$2.00