Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	11	Some top soil & broken sharp gravel clay bound
11	56	Gray colored decomposed lime stone
56	79	Alternated shallow stratas of firm & soft, gray limestone clay
79	100	Brown firm limestone clay
100	105	Firm white decomposed limestone
105	110	Very firm white decomposed limestone, fairly free of clay

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 7th day of July A.D. 1967 at 30 min past 9 o'clock a.m.
Recorded the 8 day of July 1967 in Lewis & Clark County, State of Montana.
Florence Sheehan
County Recorder.
By ..... Deputy.
$ 5

8435

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
JUL 3 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County L & C

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 Helena Sand & Gravel

Address Box 797

Helena Mont

Date well started May 1962

completed May 1962

For Administrator's Use
File 236467
June 26, 1973
GW 1 10:33 a.m.

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

Equipment used Churn
(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

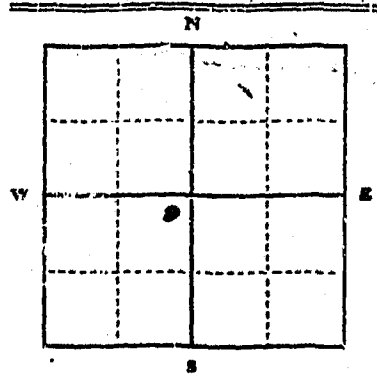
Industrial ☒ Drainage ☐ Other ☐* Garden/Lawn ☐

*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). Ready mix plant

ESTIMATED ANNUAL WITHDRAWAL 4,800,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6"	0	95	3/16 x 1½	50	90



NE SW Sec. 28
T. 10 N. R. 3 E.
S W

Static water level 50 ft.*
Pumping water level 80 ft.*
at 50 gallons per minute,
measured — minutes after pumping began.
*Measured from ground level.
Well developed by —
for — hours.
Power Elec. 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 Pmelas Lane

Driller's Address Box 797

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)	

Show exact depth of bottom

54827

236467

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } ss

I hereby certify that the within instrument was filed in my office on this 24 day of June A.D. 19 73 at 330 min. past 10 o'clock A.M.

Records of Lewis & Clark County, State of Montana

County Recorder

By Carol Crickson
Deputy

$ 2.00

SW 2 Revised 1969
STATE PUBLISHING COMPANY

1011-30 3

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 Helena Sand & Gravel

Address Box 717
Helena Mont

Date well started Aug 1962

completed Aug 1962

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

Equipment used Churn
(Churn drill, rotary or other)

For Administrator's Use
File 23646
June 29, 1973
GW 1 10:42 A.M.

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

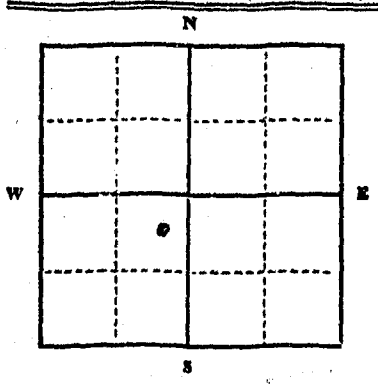
Industrial ☒ Drainage ☐ Other ☐* Garden/Lawn ☐

*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). Ready Mix plant

ESTIMATED ANNUAL WITHDRAWAL 5,000,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6	6	0	100	3/4 x 1 1/2	50	90



NE ¼ SW ¼ Sec. 28
T. 10 N/S R. 3 E/W

Static water level 60 ft.*
Pumping water level 90 ft.*
at 60 gallons per minute,
measured — minutes after pumping began.
*Measured from ground level.
Well developed by —
for — hours.
Power Elec. 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 P. Melvin Lane

Driller's Address Box 797
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)	

100 Show exact depth of bottom

54835

236476

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 93 at 121 min. past 10 o'clock A.M.

Records Lewis & Clark County, State of Montana

Clerk & Recorder

By Lesa Erickson
Deputy

Fee 200

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—50551

MONTANA WATER RESOURCES BOARD
RECEIVED
MAR 2 1970

File No. .....

T. 10 North R. 3 West

DUPLICATE

County Lewis & Clark

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Top of Ground

(Elev. above sea level 4100)

02-60 ft clay & sand
60-90 ft clay & sand
90-95 ft small gravel-3 gal min.
95-118 ft hard pan clay making water at 118-6 gal
118-135 ft clay making a little water at 135 ft
135-143 ft Lime rock
143-153 ft Open Hole making 20 gal. a min.

Owner Glenn S. Jones Address Lock Route, Helena

Driller Walter Biddock Address Helena, Montana

Date of Notice of appropriation of groundwater Sept. 1,1959

Date well started Sept. 1,1959 Date completed Sept. 18,1959

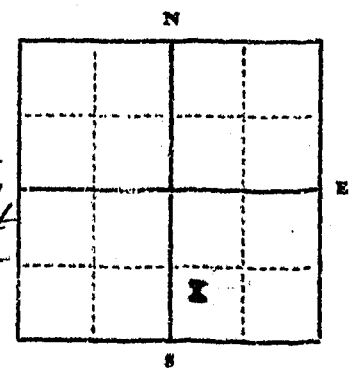
Type of well Drilled (Dug, driven, bored or drilled) Equipment used Churn Drill (Churn drill, rotary or other)

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 inch	6" 19#	0	143	Knife ½-2½	93-118 & 129 135	

Perforated at 93, 118, 135 ft. making a gain of 10 gal. a min.



Static Water Level for non-flowing well 80 feet.

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

Pumping Water Level 100 feet at 30 gal. per minute.

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

How Tested Pump

Length of Test 10 Days

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

SE ¼ Sec 28 T10 N R3 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.
153 ft.

Filed for record this 24 day of February A. D. 1970, at 9:25 o'clock a M.
No. 208422

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. 229 49
Driller's License Number

Walter Biddock
Driller's Signature.

46219

208432

Indexed
Recorded
Compared

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } S:

I hereby certify that the within instrument was filed in my office on this 24 day of Feb A.D. 19 70 at 25 min. past 9 o'clock A.M.

Records of Lewis & Clark County, State of Montana.

Allen Donald
County Recorder

By Carol Erickson
Deputy

2.00

3 GW 2 Revised 1969
15—5M—10/69

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 GLENN S. JONES

Address 2996 PROSPECT
HELENA, MONT

Date well started JUNE 2
completed JUNE 9-71

For Administrator's Use
File 219173
July 26, 1971
9.55 Am
GW 1

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

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

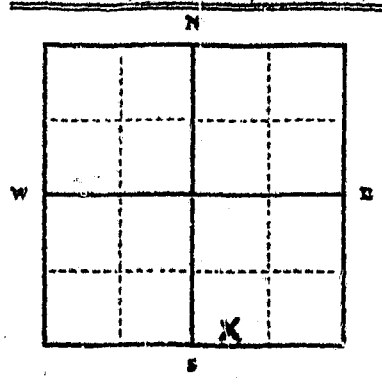
Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8 1/4	8 1/4 24LB	0	155	8 1/4	135	145
					120	130



SE ¼ ¼ Sec. 28
T. 10N N/S R. 3W E/W

Static water level 75 ft.*
Pumping water level 93 ft.*
at 70 gallons per minute,
measured minutes after pumping began. 4 HRS
*Measured from ground level.
Well developed by BAILER
for 4 hours.
Power Elect Pump 7½ 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 A. F. Welch

Driller's Address 5820 N. MONT. AVE.
HELENA, MONT LICENSE NO. 100

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 (Elev. above sea level)

From (Feet)	To (Feet)	
0	2	SOIL
2	6	CLAY
6	90	CLAY & SAND
90	95	GRAVEL WATER 3GAL. MIN.
95	118	HARD PAN CLAY MAKING WATER 118 — 6 GALS
118	128	WATER
128	135	CLAY MAKE LITTLE WATER AT 135.
135	143	LIME ROCK
143	150	LIME MAKE WATER AT 150 FT
150	175	LIME ROCK

175 Show exact depth of bottom

48923

219173

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } ss.

I hereby Certify that the within instrument was filed in my office this 27 day of [illegible] A.D. 19 77 at 2 [illegible] min. [illegible] o'clock P. M.

Recorded [illegible]

Fee $ [illegible]

[illegible]
County Recorder
By [illegible]
Deputy

RECEIVED
OCT 1 1957
STATE ENGINEER

T. 10 N. R. 3 W. 28
County LEWIS & CLARK

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner FRED A. KOHL Address 910 BRECKENRIDGE
Driller PRICE & LINDSAY Address CLANCY MONT.
Date Started MARCH 8TH 57 Date Completed MAR-15TH-57
Location: Sec. 28 LOT-1-BLOCK-21 10 N. T. 3 W. R. ¼ sec. BLOCK 21 CITY PK ADD

Type of well DRILLED (Dug, driven, bored, or drilled) Equipment used DRILLING RIG. (Cable drill, rotary, other)

Water use: Domestic ☑ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other: MOTEL

Casing: 140 ft. to BOTTOM ft. Type NEW-STEEL Size 6¼-INCH
Casing: ft. to ft. Type Size
Casing: ft. to ft. Type Size

✓ Perforated or Screened: Ft. 100 to ft. 140 Ft. to ft.
Type of screen or perforations ½ IN - BY 1½ IN - EVERY 6 IN.
Static Water level, for non-flowing well: 82 ft Ground Elev. feet.
Shut-in pressure, for flowing well: lb./sq. in. on: (date)
Pumping water level 100 feet at 14-16 gal. gal. per min.
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	10	TOP SOIL - CLAY - SHARP GRAVEL
10	35	WHITE LIME STONE CLAY
35	90	ALTERNATE SHALLOW STRATAS FIRM x SOFT BROWN LIMESTONE CLAY
90	140	ALTERNATE SHALLOW STRATAS FIRM x SOFT LIMESTONE CLAY
140	?	HIT 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 16 day of Aug A.D. 19 72 at 30 min past 9 o'clock A.M.

Records of Lewis & Clark County, State of Montana.

Witnessed Wilbur Stuart
County Recorder.

By ..... Deputy

$ 5.00

GW

Approved Stock Form—State Publishing Co., Helena, Montana—40875

File No. .....

T/ N R 3 W

DUPLICATE

County Lewis & Clark

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED SEP 20 1963 STATE ENGINEER Helena

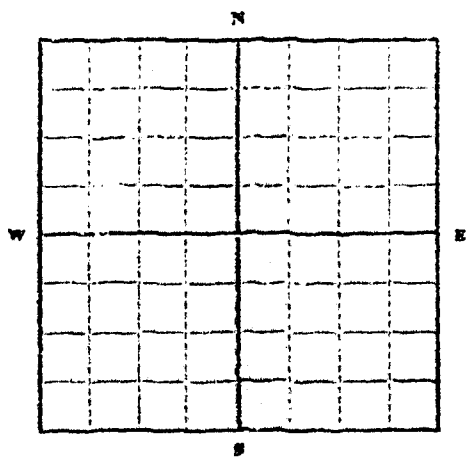
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Bert & Virginia C. Nelson, of 801 Stanley St.
(Name of Appropriator) (Address) (Town)

County of ..... State of Montana

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



.....¼..... Sec. 28 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 domestic and sawmill

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Sept. 1960 continuous - we live here

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Capacity of well 15 Gal. per Minute

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well on Block 20 Boyds Addition, Helena, Montana

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started drill Sept. 3, 1960 Completed Sept. 8, 1960

8. The depth of water table 18 Ft. from bottom

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 5 ¼ inch I D casing 24 Ft. from ground level Pump set in pit 7 Ft. deep

10. The estimated amount of groundwater withdrawn each year

11. The log of formations encountered in the drilling of each well if available
0 to 18 Ft. clay and gravel
18 to 38 limestone clay
38 to 58 shale clay
58 to 69 shale rock sandhard broken up
69 to 77 hard red shale

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: Virginia C. Nelson

Date Sept. 16, 1963

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

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

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

5974

148002

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS.

I hereby certify that the within instrument was filed in my office on this 16th day of Sept A.D. 1963 at 20 min. past 10 o'clock A M.

Records of Lewis & Clark County, State of Montana.

Helen Lovick
County Recorder

By Lorraine C Rubick
Deputy

$ 2.00

Indexed
Recorded
Compared

G

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

28

File No.....

T. 10 N R. 3 W

DUPLICATE

County Lewis + Clark

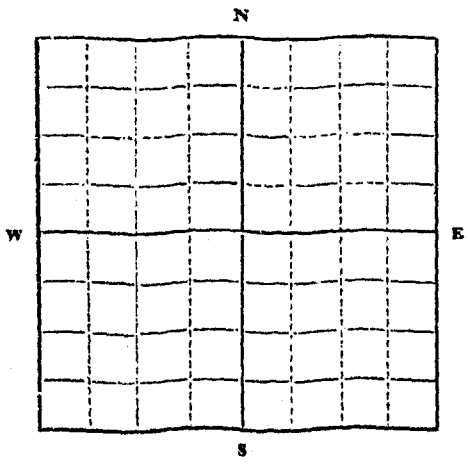
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
SEP 30 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Jack E. + Sue E. Rogers of 1005 Stanley 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:



.....¼..... Sec. 2 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 Domestic

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 13 gallons - capacity of well

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
X

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Well and electric pump on block 2 of Bayle Addition Helena.

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

8. The depth of water table 16 feet from bottom

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 - six inch casing, 78 feet deep.

10. The estimated amount of groundwater withdrawn each year not available

11. The log of formations encountered in the drilling of each well if available
Clay and gravel limestone clay shale clay - shale rock - semi hard

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 Jack E. + Sue E. Rogers

Date.....

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

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

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

6092

148404

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 26th day of Sept A.D. 19 93 at 40 min. past 8 o'clock a M.

Records of Lewis & Clark County, State of Montana

Helen Konisch
County Recorder

By Lorraine C Russell
Deputy

$ 2.00

10N-3W 28

CW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4193 3

File No.

Boyce addition

T. 18N. R. 13

DUPLICATE

County Lewis & Clark

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
APR 3 1964
STATE ENGINEER

Top of Ground

(Elev. above sea level 3650)

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Alexander Toeches Address Canyon Ferry Rd

Driller Alexander Toeches Address Canyon Ferry Rd

Date of Notice of Appropriation of Groundwater 12/20/1963

Date well started Nov 1st Date Completed Nov 5

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	6" 17 lbs			none		

Red shale rock all the way 101 ft

160 ft water can't

N
W E
S

Boyce addition
Block 13

¼ Sec. 28 T. 10N R. 3W

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

Show exact depth of bottom.

Static Water Level for non-flowing Well 20 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 55 feet at 10 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, 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)

53
Driller's License Number

Alexander Toeches
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.

35536

15-4420

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 12th day of Mar A.D. 19 64 at 10 min. past 9 o'clock a.m.

Records of Lewis & Clark County, State of Montana.

John Lonnie
County Recorder

Lenna C Rumie
Deputy

2.00

G'

File No. .....

T. 10N R. 3W 28

DUPLICATE

County. L & C

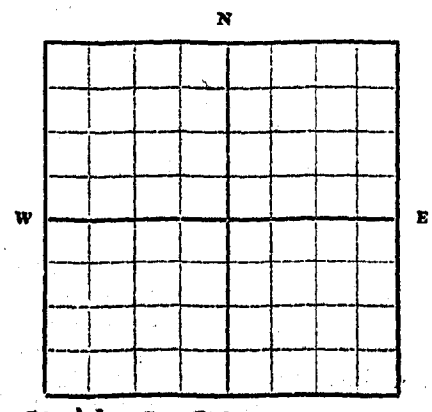
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 16 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Roger Everett Tunnicliff of Helena, York Rt
(Name of Appropriator) (Address) (Town)
County of L & C State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



On Line Between Lots 7+8 Blk 21 City Park Add'n
.....¼..... Sec..... 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 Domestic & Business

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Aug 1956 Continuous Usage then a few

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 25 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 Hand Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Aug 1956

8. The depth of water table 100 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 inch drilled well

10. The estimated amount of groundwater withdrawn each year 100,000 Gal per yr

11. The log of formations encountered in the drilling of each well if available Hard pack clay & boulders all the way to water

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

Signature of Owner R E Tunnicliff

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 School of Mines and Quadruplicate for the Appropriator.

36238

152436

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within instrument was filed in my office on this 13 day of Jan A.D. 1964 at 310 min. past 10 o'clock a. M.

Records of Lewis & Clark County, State of Montana

County Recorder

By M. Lund
Deputy

2 no

Lewis & Clark Recorded Copy

GW

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

File No.

T. 10 N. R. 3 W

County

DUPLICATE

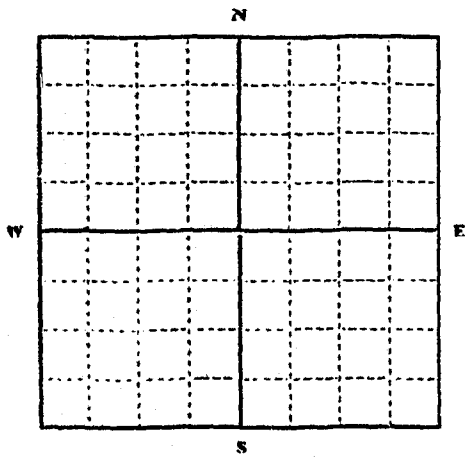
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 6 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Larson Corporation, of 1016 Billings 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:



¼ Sec. 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 Industrial use and domestic.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been December 17, 1961. Used every day of the year.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 500 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
-----

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 December 10, 1961. Finished December 17, 1961.

8. The depth of water table 60 ft. (depth of well 100 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 Location of well, 1434 Gallatin Street on E Lot 5, Block 27, N.P. addition, City of Helena, Montana. Drilled well, steel liner, size 6 in. casing and 100 ft. deep.

10. The estimated amount of groundwater withdrawn each year 2,190,000 barrels (50 gal.barrels)

11. The log of formations encountered in the drilling of each well if available Not available. Drilled by Walter Riddock.

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

Larson Corporation
Signature of Owner C. Larson V.P.

Date December 30, 1963.

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

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

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

24505

151740

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 2 26 min. past 9 o'clock a M.

Records of Lewis & Clark County, State of Montana

Helen Fenwick
County Recorder

By Norma Kelley
Deputy

12 00 pd

Entered
Recorded
Compared

G —Helena Independent Record

File No.....

T. 10 N R. 3 W

DUPLICATE

County Lewis & Clark

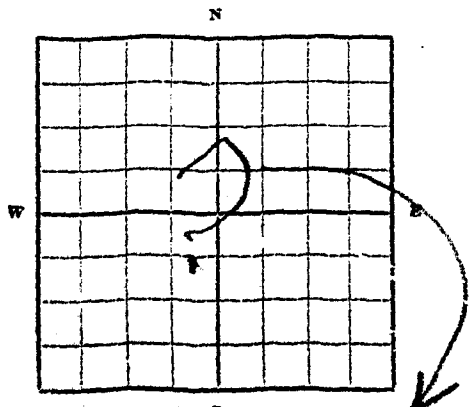
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Larson Corporation, 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:



Center of Block 27 of the N.P. Addition to the City of Helena, Montana on Lot 5.
.....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 Commercial and industrial use.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1925. Use has been continuous ever since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 33.33 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 not applicable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal has a power driven water pump installed in well casing.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1925. Exact date of commencement and completion of construction of well no longer available.

8. The depth of water table unknown approximately 100 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 8" casing - 100 feet deep.

10. The estimated amount of groundwater withdrawn each year 17,520,000

11. The log of formations encountered in the drilling of each well if available not available

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

ATTEST:

Anna E. Larson Secretary

LARSON CORPORATION
By:
Signature of Owner H. W. Larson President

Date Jan 12, 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.

3398

139724

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 22nd day of Jan A.D. 19 63 at 11 min. past 9 o'clock A M.

Records of Lewis & Clark County, State of Montana.

Helen Lomick
County Recorder

By Lorraine E Runce
Deputy

$ 2100

GW

Approved Stock Form—State Publishing Co., Helena, Montana—41638

File No.....

T. 10 N R. 3 W

DUPLICATE

County Lewis

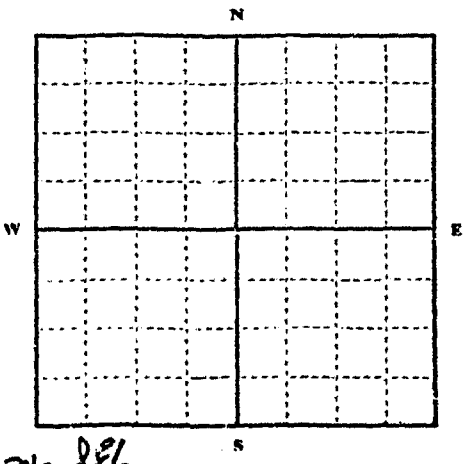
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 17 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Warren H. Lavinder, of 2000 Missouri, one 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:



N½ SE¼ ¼ Sec. 29 T. 10 R. 3

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

Lot number Sixteen (16) in Block number Ninety-three (93) of the northern Pacific Second addition to the City of Helena

2. The beneficial use on which the claim is based Water for Home use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Oct 61 Just about Every day Since Oct 61

4. The amount of groundwater claimed (in miner's inches or 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 50 X 140 ft Lawn & Garden Warren H. Lavinder

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal One well Withdrawal by Jet Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commencement approx time in 1960 Completion Oct 1961

8. The depth of water table About 45 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 Depth 45 feet Size 8 in Concrete Pipe

10. The estimated amount of groundwater withdrawn each year 1,000,000 one million Gallon

11. The log of formations encountered in the drilling of each well if available Clay, Sand, Gravel Encountered White Clay or Lime Formation Just before Hitting Water table which continued 50 to 60 ft or so for an Insert Below Water table

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Recorded Land Recorded in Book 197 of Books on Page 511 of the Records of Lewis & Clark County of the State of Montana

Signature of Owner Warren H. Lavinder

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

9683

150783

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 Dec A.D. 1963 at 2:10 min. past 1 o'clock P M.

Records of Lewis & Clark County, State of Montana.

County Recorder

By L. Lyle
Deputy

$2.00

GW 2 Colonial Club Interchange 2120-0590-1820
27' Lt. Sta. 136+85 "C" 3 ramp

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

File No.

T. 10 N. R. 3 W.

DUPLICATE

County Lewis & Clark

29

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level 4026.86)

Owner Montana Highway Commission Address Helena, Montana

Driller Montana Highway Department Address Helena, Montana

Date of Notice of appropriation of groundwater 6/24/70

Date well started June 18, 1970 Date completed June 24, 1970

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 ☐

Dense, light brown, silty sand, with cobbles & gravel.

Doc. No. 211087
Filed for record
this 24 day of July
A. D. 19 70, at 8:46
o'clock A. M.

38.0'

Dense, brown, sandy silt.

45.0'

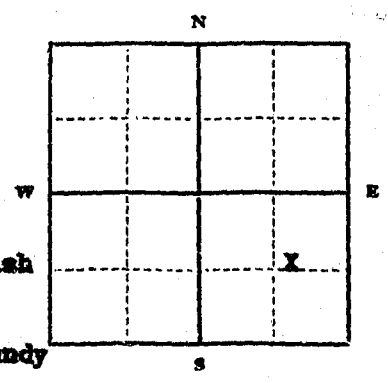
Very dense, reddish brown shale with white & grey rhyolite; some sandy silt; water.

71.0' Bottomed hole in very dense, reddish brown shale with white & grey rhyolite; some sandy silt; water.

Show exact depth of bottom.

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	8" ID Iron 28.55#/ft.	0.0'	52.0'	8" Red Brass Slot size 100	51.0'	71.0'



Static Water Level for non-flowing well 46.5' feet.

Shut-in Pressure for Flowing Well —

Pumping Water Level 42.7 feet at 126 gal. per minute.

Discharge in gal. per min. of flowing well 126

How Tested Pumped

Length of Test 1 hour 45 minutes

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

NE¼ SE¼ Sec. 29 T. 10N R. 3W

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

WATER ANALYSIS

Ph 7.8

CO_2 None

Phenolthalien Alkalinity 14.4 p.p.m. $CaCO_3$

Methyl Orange Alkalinity 202.0 p.p.m. $CaCO_3$

(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).

Total Hardness 256.0 p.p.m. $CaCO_3$

Total Solids 442.0 p.p.m.

Noncorrosive but encrusting to metal

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.

None required
Driller's License Number

Driller's Signature Matls. Engr.

46719

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } ss

I hereby certify that the within instrument was filed in my office on this 24 day of July A.D. 19 70 at 40 min. past 8 o'clock A. M.

Records of Lewis & Clark County, State of Montana

By Colleen Deputy

211087

Indexed
Recorded
Compared

GV Helena Independent Record

File No.....

DUPLICATE

T. 10 N R. 3 W

County L & C

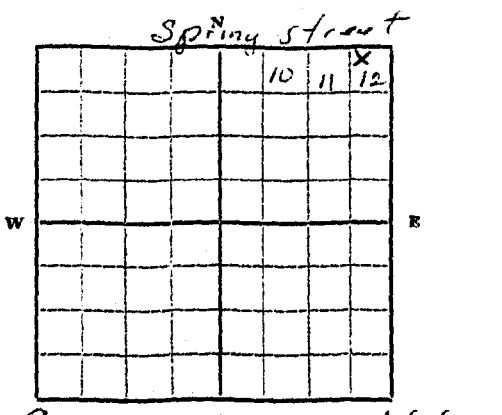
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
FEB 5 1962
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Susan B Briggs, of Rt 8 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:



Seymour Park addition Helena Mt

.....¼..... Sec. 30 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 irrigation & 3 lots - Stock water.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been July 1, 1960 daily continuous use

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 - 20

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 lots 50-150.
Susan B Briggs

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater June 7, 1960 - Completed June 8, 1960

8. The depth of water table 35 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 4" Casing 36 ft deep

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
7-17 ft Boulders
17-26 ft Clay and Gravel
26-35 ft tight Gravel
35-36 ft clear water + 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 Susan B Briggs

Date Jan 31, 1962

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

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

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

1344

Indexed
Recorded
Compared

128954

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS.

I hereby certify that the within instrument was filed in my office on this 31st day of Jan A.D. 19 62 at 3 min. past 9 o'clock A M.

Records of Lewis & Clark County, State of Montana.

Helen Konich
County Recorder

By Lorraine D Russell
Deputy

1:00

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

2W 30

File No.

T. 10N R. 2W

DUPLICATE

County L & C

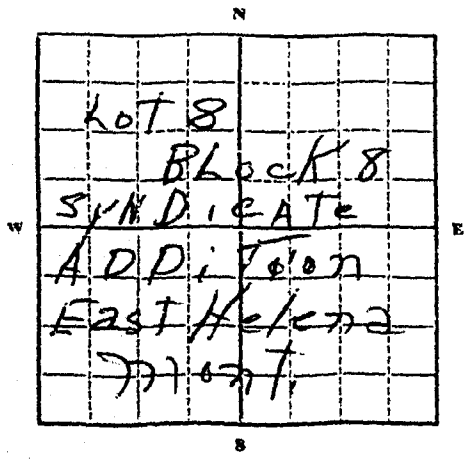
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUL 13 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Reuben O Hagen (Name of Appropriator), of 502 King ST (Address) East Helena (Town)
County of Lewis & Clark State of Mont.
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



..... ¼ ..... Sec. 30 T. 10N R. 2W

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 & Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been ~~45 gal per minute~~
April 15, 1963
Continuously

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 45 gal per Minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
125 x 125 Lot

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 11-7-62 11-13-62

8. The depth of water table 65 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" ID Iron Casing 18 lbs per FT From 1 - 60 FT.
Perforation Size ¼ x 4" From 50 - 60 FT.

10. The estimated amount of groundwater withdrawn each year

11. The log of formations encountered in the drilling of each well if available
30 FT Powder Clay 20 FT Brown Sandy Clay
15 ft Course SAND & Gravel - Total 60 FT.

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 Reuben O. Hagen

Date July 8 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.

5062

145979

Indexed
Recorded
Compared

STATE OF MONTANA
COUNTY OF LEWIS & CLARK

I hereby certify that the within instrument was filed for record on the 16th day of July A.D. 1963 at 38 minutes past 2 o'clock a M.

Records of Lewis & Clark County, State of Montana

County Recorder

By Deputy

2.00

STATE ENGINEER

RECEIVED

3

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

30

File No.....

T. 10 N R. 3 W

DUPLICATE

County L & C

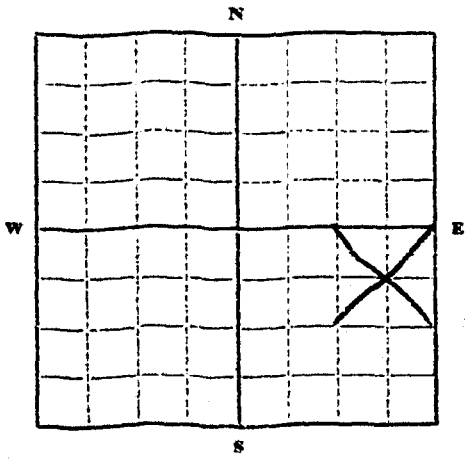
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 10 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Verna M. Hand & 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 ¼ Sec. 30 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 For Yard & Garden & Emergency use.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been July 1948

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 Lots 11 & 12 Block 5 of Lockey 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 1948

8. The depth of water table 60 Feet.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Well with 6" Casing 60 Feet Deep. Perforated from 5' to 40'.

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 Clay & Gravel Formation all the way.

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 of Block 5 of the Lockey Addition to the City of Helena Which is on the NW¼ of SE¼ of Section 30 Township 10 N. Range 3 W.

Verna M. Hand
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.

1301

1506 #3

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 9th day of Dec A.D. 1965 at 15 min. past 11 o'clock a.m. and recorded on page ____ of Book ____ of ____ Records of Lewis and Clark County, State of Montana.

Helen Dowick
County Recorder

By Lorraine C Russell
Deputy

$ 2.00

GW

Approved Stock Form—State Publishing Co., Helena, Montana—4123

File No.

T 10 N R 3W

DUPLICATE

County Lewis and Clark

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

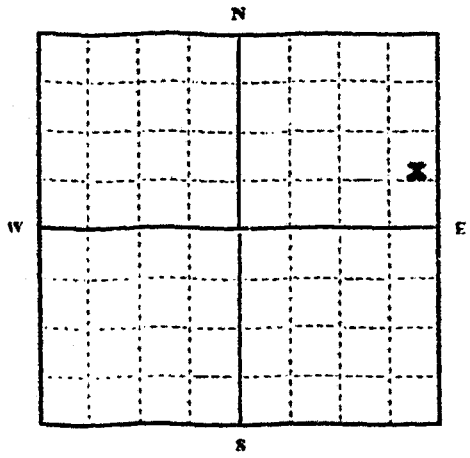
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. City of East Helena (Name of Appropriator), of East Helena (Address) (Town)

County of L & C State of Montana

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



¼ NE Sec. 36 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 Municipal #9

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 7-22-55 8 months Jun, Jul, Aug. Dec, Jan, Feb. as needed for irrigation of lawns and in winter to warm regular water

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 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 none

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 15 H.P. Electric pump at South Montana Avenue

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 7-13-55 7-22-55

8. The depth of water table 85Ft.

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 5" ID Steel pipe 170 ft. outside casing 7" 26lb. new 5" liner 14 lb. new Knife perforation 46-49 Shutter @ 85 ft. 5" perforation 38-41 ft. @ 5" from 85 to 170 ft.

10. The estimated amount of groundwater withdrawn each year unknown

11. The log of formations encountered in the drilling of each well if available top soil to large boulders to 25 ft. sand tight clay brown 38ft. white lime stone decomposed and some sand 135 to 170 ft. water at 25, 46 to 49 85 to 100, 100 to 135, 135 to 170 ft. Static water level 8Ft.

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 see well drillers log State Engr. and Board of Health

Signature of Owner [signature] Clerk

Date 12-23-63

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

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

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

26643

151819

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within instrument was filed in my office on this 6 day of Jan A.D. 1964 at 50 min. past 10 o'clock A M.

Records of Lewis & Clark County, State of Montana

County Recorder

By M. Loss
Deputy

$2.00 pd

GROUNDWATER INDEX

County L+C Twp. 10N Rge. 24W

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
2	Leif Erickson Ranch	GW2	203190	
3	Bell, Loyd + Jenkins, Daniel	GW2	211681	
4	Simpson, Robert L	GW4	131644	
6	Allen, Myers L.	GW4	150362	
6	Barnes, Lyle G + Dawn L.	GW4	152261	
6	Beyanson, Edward + Mrs Edward	GW4	152482	
6	Black, Jack	GW2	233259	
6	Black, Jack L	GW4	150107	
6	Black, Robert + Jane	GW2	151733	
6	Munson, Daniel M.	GW4	152341	
6	Sieben Live Stock Co.	GW4	151604	
6	Sieben Live Stock Co.	GW4	151611	
6	Sieben Live Stock Co.	GW4	151609	
6	Sieben Live Stock Co.	GW4	151606	
6	Wegner, Ralph L.	GW2	184069	
7	Bobstech, John	GW2	207792	
7	Bus, Howard	GW2	216774	
7	Coleman, Chet	GW2	192122	
7	Coleman, Chet	GW2	216461	
7	Herold, Sarah	GW2	177693	
7	Herold, Sarah A.	GW2	177692	
7	Lane, Orville W. + Wilda L.	GW2	179066	
7	Miller, Greg	GW4	152037	
7	Repitz, Ronald	GW2	219823	
7	Schnell, Jon	GW2	205898	
8	Diehl Ranch Co.	GW2	236521	
9	Jenewein, Wayne	GW2	235757	
11	Clase, Ralph W + Kathryn M.	GW2	233151	
11	Eckroth, Joseph L	GW2	230438	
11	Dickmeyer, M. C.	GW2	236523	
11	Nigg, James L	GW2	230629	
11	Powell, Charles	GW2	233431	
12	Folkvord, Dale Leroy	GW4	128455	
12	Folkvord, Dale Leroy	GW3	128456	
12	Hrella, Albert	GW4	150629	
12	Kuchar, Kraig	GW2	233877	
12	Kraut, Maurice	GW2	232918	
12	Turcotte, James L	GW2	227838	
12	Ulberg, John C.	GW3	233678	
12	Ulberg, John C	GW2	232915	
13	Franklin, R	GW2	220266	
13	Hyde, John	GW2	220044	
13	Jones, F. L. + M. D.	GW2	226210	
13	Smith, Earl W + Vonda	GW4	131918	
13	Tallmadge, Arlen + Jones, Lorin M.	GW2	167117	
15	Bullock, A. J. + Eva	GW4	152282	

Twp. 10N Rge. 2W

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
16	Diehl Ranch Co.	GW2	236520	
17	Armagost, R.	GW2	222158	
19	Bahny, Harry	GW2	213283	
19	Clinton, Carl L.	GW2	191772	
19	Ledder, Mrs. Shirley	GW2	230365	
19	Monforton, Don	GW2	220581	
19	Morello, Charles J. + Marian J.	GW2	202279	
19	Rambow, Frederick S.	GW2	228975	
19	Smigg, James	GW2	193922	
20	Poepping, Nickolaus H.	GW4	147801	
22	Boydell, Thomas	GW2	220228	
23	Diehl Ranch Co.	GW2	236516	
24	Dukhouse, Joe	GW4	130759	
24	Dukhouse, Frank	GW2	223016	
24	Johnson, Robert L.	GW3	130666	
27	Foster, Jesse N.	GW4	151805	
28	Diehl Ranch Co.	GW2	236518	
29	Fulton, F.	GW2	232470	
29	Pfeffer, Susie J.	GW2	212326	
29	Royston, Frances Shirley	GW4	149731	
30	Armstrong, Roy J.	57 well log	99426	
30	Armstrong, Roy J.	57 well log	99425	
30	Casey, Bill + Esther L.	GW2	190267	
30	Chovanak, Joe L	GW2	200164	
30	Cox, William R III	GW2	234550	
30	De Dycker, Louis	GW2	220614	
30	Dallum, Eugene H, Henry E, Howard M	GW4	139222	
30	Eidum, Palmer	GW2	223351	
30	Fisher, Rodney	GW2	223789	
30	Aine, James	GW2	225095	
30	Holstine, Vera	GW2	232667	
30	Johns, Edna May	GW2	227007	
30	Knott, Bill	GW2	212197	
30	Marks, Philip	GW2	220451	
30	McDonald, Gordon	GW2	180828	
30	Murdock	GW2	230679	
30	O'Brien, Jerry R.	GW2	235859	
30	Street, Mr. Henry A.	GW2	233433	
30	Taplin, Lyman	GW2	227832	
31	Casey, J. B.	GW4	152485	
31	Casey, William E + Helen L.	GW4	152484	
31	Ellsha, John C	GW4	150584	
31	Hauk, Frank J.	GW2	156958	
31	Helfert, Larry L.	GW4	151024	
31	Stewart, Joel + Ethel	GW2	190650	
32	Poepping, Norbert	GW2	234563	

GROUNDWATER INDEX

County L+C Twp. 10N Rge. 26

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
33	Diehl Ranch Co	GW2	236519	
25 & 35	Smith, Frank L	GW4	129877	
6	Hagen, M.C.	GW2	233014	
19	Lola?, Joseph J. & Ann M	2	235169	

GW 2

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

File No.....

T. 10 N. R. 2 W

DUPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED

County L & C

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

0 to 7' open hole, Pit

7 to 26' clay and gravel

26 to 40 clay 40 to 48 sand and clay a little water.

48 to 50' broken hard pan clay. making 12 gal. per min.

43' from bottom of the pit.

50' ft from surface.

Show exact depth of bottom.

Owner Leif Erickson, Ranch Address Helena, Montana

Driller Walter Riddock Address Helena, Montana

Date of Notice of appropriation of groundwater April 22, 1961

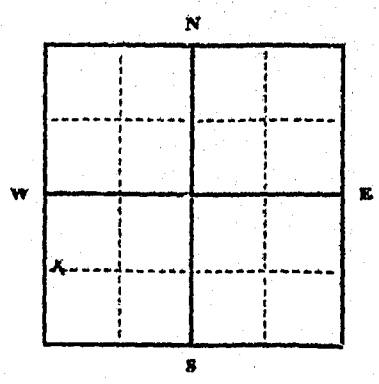
Date well started April 16, 1969 Date completed April 21, 1969

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)
8"	6" 17#	0	43	None		



SW 1/4 Sec. 2 T. 10 R. 2

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

Static Water Level for non-flowing well 27 feet.

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

Pumping Water Level 42 feet at 12 gal. per minute.

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

How Tested bailer

Length of Test 2 hr.

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.

Mont No. 49
Driller's License Number

Walter Riddock
Driller's Signature.

45,204

BK 3190

Indexed
Recorded
Abstracted

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } ss

I hereby certify that the within instrument was filed in my office on this 18 day of October A.D. 19 89 at 8:00 o'clock A.M.

Records of Lewis & Clark County
State of Montana

By Carol Mitchell
Deputy

8.00

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—46805 3

File No.

T. 10N R. 2W

DUPLICATE

County Lewis + Clark

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Owner: Loyd Bell + Daniel Jenkins Address: East Helena

Driller: Price Drilling Address: Clancy, Mont.

Date of Notice of appropriation of groundwater

Date well started: May 23, 1969 Date completed: May 27, 1969

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"	6 5/8" O.D. 15 lb.	0	60			

LOG

Top of Ground

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

well started in hole approx. 7' deep

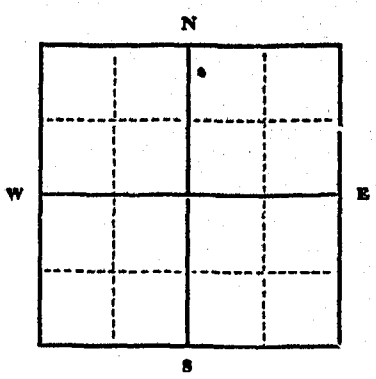
0 - 34' large clay bound boulders
34 - 43' tight hardpan
43 - 60' firm clay
60 - 60.6 shallow strata sand and gravel
60.6 - 63' hardpan
63 - 65' shallow strata loose gravel and hard pan

65 - 60' backfilled with clean medium gravel

23' some seepage
43' " "

Doc. No. 211681
Filed for record
this 19 day of August
A. D. 19 70, at 1:00
o'clock P M.

Show exact depth of bottom.



NW¼NE¼ Sec. 5 T. 10 R. 2

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

Static Water Level for non-flowing well 42 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 49 feet at 18 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested: bailer

Length of Test: 1½ 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.

17'
Driller's License Number

Robert Price
Driller's Signature.

47392

211681

Indexed
Recorded
Compared

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } S:

I hereby certify that the within instrument was filed in my office on this 19 day of Aug A.D. 19 70 at 8 min past 1 o'clock P.M.

Records of Lewis & Clark County State of Montana.

John Lamb
County Recorder

By Carol Erickson
Deputy

2.00

4—Helena Independent Record

File No.....

T 10N R 2W 24

DUPLICATE

County LC

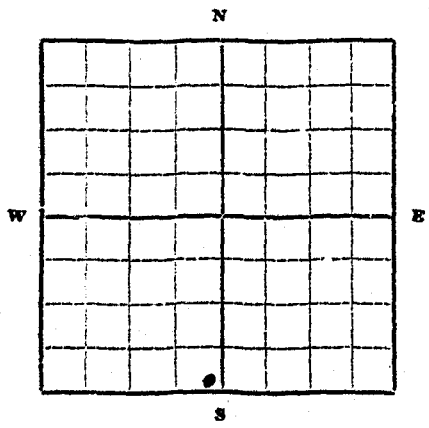
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
APR 23 1962
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Robert S. Simpson, of Route A 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 ¼ of Sec. 4 T 10N R 2W

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 watering yard garden + stock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1917 continuous 1962

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 25

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 yard, garden, stock

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 1917
1961 New pump

8. The depth of water table 45 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 127 ft. 5" casing 1 hp. elec. motor jet pump system

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 Robert S. Simpson

Date Apr. 11, 1962

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

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

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

487

131 64 d

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 24a day of Apr A.D. 1962 at 35 min. past 9 o'clock a M.

Records of Lewis & Clark County, State of Montana.

John Lonich
County Recorder

By Lorraine C Russell
Deputy

2:00

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

File No.....

T. 10 N R. 2 W

County

RECEIVED
DEC 2 1963
STATE ENGINEER

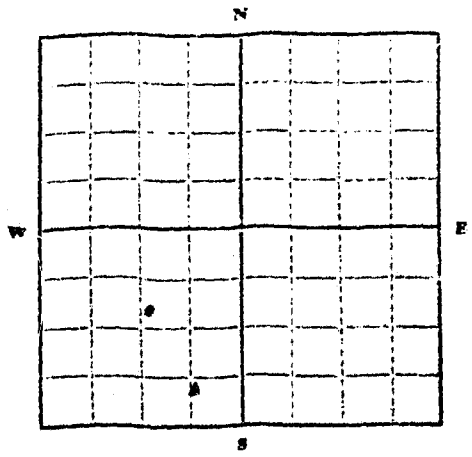
DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, Myers E. Allen (Name of Appropriator), of Route A (Address) Helena (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:



E½ 1/4 SW Sec. 6 T. 10 N R. 2 W.

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

2. The beneficial use on which the claim is based Household use & irrigation

3. Date or approximate date of earliest beneficial use, and how continuous the use has been 1959 /well continuous house hold use;/sump during growing season

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1500 gallons per minute on sump & 40 gallons per minute on homestead well (Claim water for irrigation 49 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 42 acres has been irrigated from sump description E 1/2 SW 1/4, Sec. 6 T.10 R2w Myers & Mildred Allen

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1959 One well being used for house hold purpose has been drilled & cased;1959 sump has been constructed from which above described lands have been irrigated

8. The depth of water table Well approximately 30 feet.Large sump Approx.12 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 Well drilled to 35 feet.6 inch metal casing Sump approximatley 25 feet long 15 to 20 feet wide at bottom.

10. The estimated amount of groundwater withdrawn each year 180 Acre feet

11. The log of formations encountered in the drilling of each well if available Predominately gravelly and cobbly clean sand below 3 feet depth,with some thin clay and loamy stratas.

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 Myers E. Allen

Date Nov 29 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.

7588

150362

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 Nov A.D. 1963 at 40 min. past 10 o'clock A M.

Records of Lewis & Clark County, State of Montana.

County Recorder

By Lorraine C Russell
Deputy

2.00

Approved Stock Form—State Publishing Co., Helena, Montana—42236

File No.

T. 10 N R. 2 W

County Lac

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

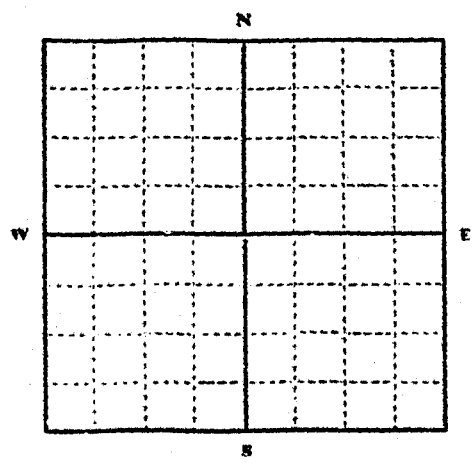
RECEIVED JAN 18 1974 STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Lyle Dand Daisie L Barnes, of Route 6 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. 6 T. 10N R. 2W

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 and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 3/11/59 - continuous use

4. The amount of groundwater claimed (in miner's inches or gallons per minute) ~~2 acres of lawn~~ 20 gals 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 2 acres of lawn + gardens

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Drilling began 3/9/59 - Well finished 3/11/59

8. The depth of water table 12 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater drilled well 35 1/2 ft

10. The estimated amount of groundwater withdrawn each year undetermined

11. The log of formations encountered in the drilling of each well if available 0'-5' pit; 5'-22' gravel; 22'-28' hardpan; 28'-32' clay; 32'-35' tit-gravel; 35 1/2' 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 Lyle D. Barnes ~~[illegible]~~ Daisie L Barnes

Date 12/31/63

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.

31328

152261

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 18 day of Jan A.D. 19 64 at 11 min past 9 o'clock a M.
Records of Lewis & Clark County, State of Montana.

Clerk & Recorder
County Recorder.

By M. Lowe
Deputy

$2.00 pd

Approved Stock Form—State Publishing Co., Helena, Montana—40876 3 6

File No.....

T. 10 N R. 2 W

DUPLICATE

County L & C

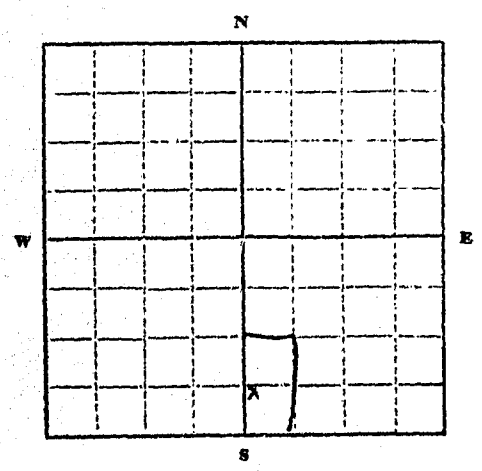
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

D JAN 16 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Edward Bezanson, Mrs Edward Bezanson, of Helena Valley 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 ¼ Sec. 6 T. 10 R. 2W

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, garden, lawn & stock watering

3. Date or approximate date of earliest beneficial use; and how continuous the use has been April 1962 continual use

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 3/4 hose pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater March 1962

8. The depth of water table 36'

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 5/8 c.o. casing - 36' deep

10. The estimated amount of groundwater withdrawn each year

11. The log of formations encountered in the drilling of each well if available 0'-31' Soil & sand 31'-25' Brown silty clay boulder gravel 25'-30' Tight fine only clean sand & gravel

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record measurements taken from bottom of 6' pit

Signature of Owner Edward P. Bezanson

Date 12-31-63

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.

36253

152482

Microfilmed
Indexed
Compared

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within instrument was filed in my office on this 14 day of Jan A.D. 19 64 at 11 min. past 9 o'clock a. M.

Records of Lewis & Clark County, State of Montana.

County Recorder

By. M. Loss
Deputy

$ 2.00

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

10 N-2W
County Lewis & Clark

RECEIVED
MAR 20 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Formerly Jack Black New Owner, Clarence N. Hagen

Address York Road Helena, Montana

Date well started June 3, 1961

completed June 5, 1961

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 80,000

For Administrator's Use	
File 233259	
March 20, 1973	
GW 1	1:35 p.m.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6"	17/6	0	38		none	

Static water level 8 ft.*
Pumping water level 30 ft.*
at 20 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by Bailer
for 2 hours.
Power Elec. Pump 3/4 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

E ½ E ½ SW¼ S.E. ¼ Sec. 6
T. 10 (N) S R. 2 E (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. 58

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	6	topsoil & gravel
6	18	gravel
18	28	clay
28	36	sand & silt
36	38	gravel & sand

38 Show exact depth of bottom

52,136

233259

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 Mar A.D. 19 23 at 35 min. past 1 o'clock P M. and recorded on page ____ of Book ____ of ____ Records of Lewis and Clark County, State of Montana.

[illegible] Kovich
County Recorder

[illegible]
Deputy

200

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

File No.....

T 10 N R 2 W

DUPLICATE

County Lewis & Clark

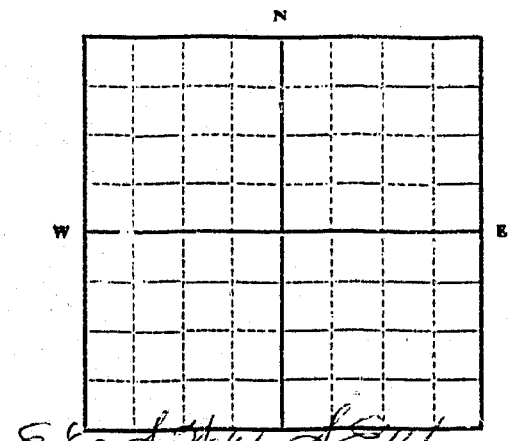
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 26 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. JACK L. BLACK (Name of Appropriator) of HELENA VALLEY (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:



E 2 of W 1/4 of SE 1/4 ..... 1/4 ..... Sec. 6 T 10 R 2

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 + YARD WATER

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 GALS. 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 YARD + GARDEN

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater SEPT - 1961

8. The depth of water table 34 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" i.d. CASING 34 FEET DEEP

10. The estimated amount of groundwater withdrawn each year

11. The log of formations encountered in the drilling of each well if available TOPSOIL + GRAVEL TO 11 FEET - GRAVEL + CLAY TO 32 FEET CLEAN SAND + GRAVEL AT 33 TO 35 FEET

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 Jack L. Black

Date 11-21-63

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.

7489

150107

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS.

I hereby certify that the within instrument was filed in my office on this 21st day of Nov A.D. 1963 at 45 min. past 8 o'clock A M.

Records of Lewis & Clark County, State of Montana.

Stella Jewish
County Recorder

By Amanda C. Rusme
Deputy

$ 2.00

LRCOI PG
Recorded
Compared

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—41938 No. 3

File No.....

DUPLICATE

RECEIVED
MAY 20 1964
STATE ENGINEER

T. 10 N. R. 2 W.

County L & C

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JUN 5 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

0-3 ft. Topsoil

3 ft. to 18 ft. gravel + clay sand

static Level

18 ft. to 29 ft. Hardpan

29 ft to 32 ft. Clay + gravel

32 ft. to 32½ ft. gravel & sand

Owner Robert + Jane Black Address Rt. A

Driller Price + Lindsay Address Clancy, Mont.

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

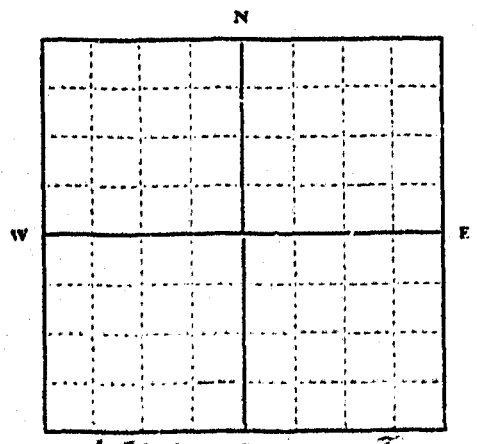
Date well started June Date Completed June

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

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

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6¼ i.d.	15 lb.	0	32½			



1 acre

.....¼..... Sec. 6 T. 10 N. R. 2 W.

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

Show exact depth of bottom.

Static Water Level for non-flowing Well 10 feet.

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

Pumping Water Level 20 feet at 15 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).....

Bailer
Driller's License Number

/s/ Wesley Lindsay
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.

27499

151733

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 47 min. past 9 o'clock a M.

Records of Lewis & Clark County, State of Montana

Helen Lovick
County Recorder

By Norma Kelley
Deputy

Fee Pd

Indexed
Recorded
Compared

10N-2W

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

County Jefferson & 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 Mr. & Mrs. Hagen

Address 3656 York Rd.
Helena

Date well started June 7-72
completed June 8, 72

For Administrator's Use
File 233014
MARCH 9, 1973
GW 1 9:55 AM

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

Equipment used Churn (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

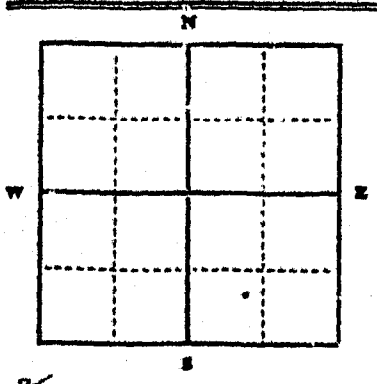
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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 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	30	none		



E½E½ SW ¼ SE ¼ Sec. 6
T. 10 N (S) R. 2 E (W)

Static water level 8 ft.*
Pumping water level 23 ft.*
at 20 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by Bailer
for 2 hours.
Power Elec. 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	5	Topsoil
5	18	Gravel & sand
18	25	Gravel & Clay
25	28	Sand
28	31	Gravel

30 Show exact depth of bottom

52595

233014

Indexed
Inserted
Checked

STATE OF MONTANA
COUNTY OF LEWIS & CLARK } SS

I hereby certify that the within instrument was filed in my office on the 9 day of Mar A.D. 19 73 at 55 min. past 9 o'clock A M

Records of Lewis & Clark County, State of Montana

County Recorder

By Barbara
Deputy

2.00

GW

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

File No. .....

T. 10 N R. 2 W

DUPLICATE

County Lewis & Clark

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

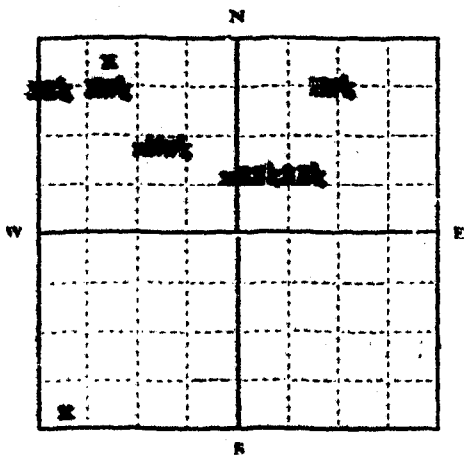
JAN 15 1962

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, [redacted] (Name of Appropriator), of [redacted] A (Address) [redacted] (Town)

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



[redacted] Sec. 6 T. 10 R. 2 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 Water for irrigation purposes

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Summer -1944-

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 150 Miners Inches each well

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 Daniel N. Hanson

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric pump - 9

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Summer - 1944

8. The depth of water table 10 + Average

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 Open Pit wells - Approx. - 40' Across 8' 40' in Depth

10. The estimated amount of groundwater withdrawn each year 14,560 miners Inches

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

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.

36150

152341

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. 1964 at 14 min. past 1 o'clock P M.

Records of Lewis & Clark County, State of Montana

County Recorder

By M. Lane
Deputy

Indexed
Abstracted
Compared