

4015

FILE

284845

I received and filed this instrument for record on the 22 day of Sept, 1917 at 2:25 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:
 Verano R. Crouse, County Recorder
 By H. Hill Deputy
 Fee \$ 2.00 Paid

MISSOULA COUNTY, MONTANA

W. H. HILL

Deputy

RECEIVED BY MISSOULA COUNTY RECORDER

RECORDED IN BOOK 284845

INDEXED IN BOOK 284845

MISSOULA COUNTY RECORDER

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MISSOULA COUNTY RECORDER

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How tested? test

How reduced? 2

How tested? test

How reduced? 2

RECEIVED

County Missoula 35

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

SEP 14 1972

DRILLER'S LOG

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

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

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 Harold Kirkene

Address Mullan Rd.

Missoula, Montana 59801

Date well started Aug. 17, 1972

completed Aug. 21, 1972

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

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

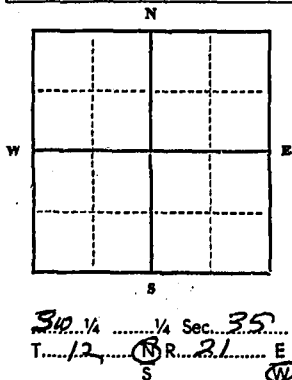
Water Use: Domestic Municipal Stock Irrigation
Industrial Drainage Other * Garden/Lawn

*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" ID	6" ID 17 lb per ft. g.l.	1' 6"	83' 3"		none	



Static water level 24 ft.*
Pumping water level 28 ft.*
at 11 gallons per minute,
measured 2 minutes after pumping
began.
*Measured from ground level.
Well developed by test pump
for 1 hours.
Power Elec Pump 3/4 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	Wells: Loto Creek
0	25	Tan Clay & Boulders
26	71	Yellow Clay & Gravel
71	78	Gravel Sand & Water
78	83' 3"	Gravel & Water

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

Driller's Signature Allen Camp
CAMP WELL DRILLING & PUMP SUPPLY
1522 S. 14th W., Missoula, Montana
59801

Driller's Address
LICENSE NO. 7

83' 3" Show exact depth of bottom

51,370

#2329

321830

I received and filed this instrument for
recording on the 8 day of Sept 1972
at 2:15 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand:
Vermae R. Cress, County Recorder
By _____ Deputy
Fee \$2.00 Paid

File No. STATE WATER CONSERVATION BOARD

T. 12N R. 21W

35

DUPLICATE

MAY 5 1967

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground (Elev. above sea level)
0 top soil
1 tan clay, sand, gravel and scattered boulders
63 seep of water, sand and mica
63 tan clay, sand and gravel
65'6" sand, gravel and water

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Robert J. & LaVerne Harbrige Address Lolo Creek Road

Driller Ken Williams Address 1219 Howell Missoula, Montana

Date of Notice of Appropriation of Groundwater

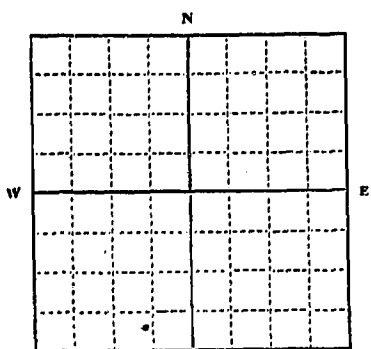
Date well started April 18, 1966 Date Completed April 23, 1966

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

Water Use: Domestic [X] 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.

Table with columns: Size of Drilled Hole, Size and Weight of Casing, From (Feet), To (Feet), PERFORATIONS (Kind Size, From (Feet), To (Feet)).



Sec. 35 T. 12N R. 21W
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 60 feet.
Shut-in Pressure for Flowing Well
Pumping Water Level 65 feet at 5 gal. per minute.
Discharge in gal. per min. of flowing well
How Tested Bail Test Length of Test 4 hours

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).

151 Driller's License Number

/s/ Ken Williams 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.

41,861

1700

260314

received and filed this Instrument for
 record on the 3 day of May, 1967
 at 1:20 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Varcoe B. Couze, County Recorder
 By M. M. C. [Signature] Deputy
 Fee \$2.00 (Paid cash)

STATE OF MONTANA
 MISSOULA COUNTY
 DEPARTMENT OF REVENUE

RECORDATION BY MISSOULA COUNTY
 DEPARTMENT OF REVENUE

MISSOULA COUNTY DEPARTMENT OF REVENUE
 RECEIVED FOR RECORDATION
 THE FOLLOWING INSTRUMENTS FOR RECORDATION
 ON MAY 3, 1967 AT 1:20 P.M.
 MISSOULA COUNTY, MONTANA
 BY MISSOULA COUNTY DEPARTMENT OF REVENUE

RECEIVED

NOV 2 1972

County Missoula 35

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD
MONTANA DEPARTMENT OF NATURAL
RESOURCES AND CONSERVATION

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.

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 JAMES PRELAT

Address LOLO MONTANA

Date well started SEPT. 8, 1972

completed SEPT. 11, 1972

Type of well DRILLED

Equipment used CHURN

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

For Administrator's Use	
File	<u>2364-323997</u>
Date	<u>Oct. 31, 1972 - 9:40 a.m.</u>
Well No.	<u>GW 1</u>

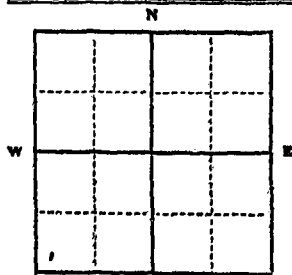
Top of Ground		(Elev. above sea level)
From (Feet)	To (Feet)	
0L	6"	TOP SOIL
6"	12'	Tan clay, sand and gravel
12'	16'	Tan clay, sand, gravel and boulders
16'	27'	Tan clay, sand and gravel
27'	32'	Sand, gravel and water
32'	42'	Tan clay, sand and gravel
42'	42'6"	Sand, gravel and water
42'6"	50'	Tan clay, sand and gravel
50'	51'	Sand, gravel and water

*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 (Foot)	To (Foot)	PERFORATIONS		
				Kind Size	From (Foot)	To (Foot)
<u>6" I.D.</u>	<u>6-5/8" OD</u>	<u>ground level</u>	<u>51 ft.</u>	<u>none</u>	<u>none</u>	<u>none</u>



Static water level 28 ft.*

Pumping water level 49 ft.*

at 25 gallons per minute,

measured 60 minutes after pumping began.

*Measured from ground level.

Well developed by sub test pump

for 2-1/2 hours.

Power 220 Pump 3/4 HP

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

S.W. 1/4 S.W. 1/4 Sec. 35

T. 12 R. 21 E. (W)

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

Driller's Signature Hennett L. Williams

Driller's Address 1558 So. 5th. W. MISSOULA, MONTANA

LICENSE NO. 151

51 ft. Show exact depth of bottom

51,730

#2364

323997

I received and filed this instrument for
 record on the 31 day of Dec. 19 19 11
 at 8:40 o'clock A.M. permanent file
 of Lincoln County State of Montana
 Witness my hand
 Vernon R. Cross, County Recorder
 By _____, Deputy
 Fee \$ 2.00 - 0 Paid

RECORDED
 INDEXED
 JAN 11 1912
 COUNTY CLERK

File No.

T. 12 N R. 21 W

DUPLICATE

SW

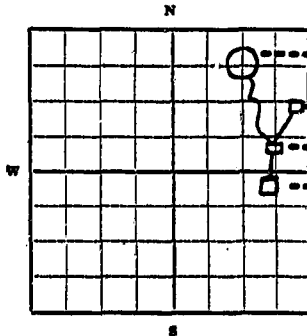
County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. KENWARD N. THAYER and MARIE E. THAYER, of Lolo,
(Name of Appropriator) (Address) (Town)

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



SE 1/4 Sec. 35 T. 12 N R. 21 W

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

2. The beneficial use on which the claim is based is on house, stock and garden water and irrigation of about 15 acres of hay land.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been house, garden and stock water continuously since 1890. Irrigation of about 15 acres since 1947.

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof About 15 acres in Southeast Quarter of Section 35, T. 12 N, R. 21 W owned by Kenward N. Thayer and Marie E. Thayer.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Natural Springs located as indicated on map.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater House, garden and stock water system completed about 1890. Irrigation system for 15 acres completed in the Spring of 1947.

8. The depth of water table Unknown.

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 Not applicable.

10. The estimated amount of groundwater withdrawn each year Unknown.

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

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

Kenward N. Thayer
Signature of Owner Marie E. Thayer

Date September 9, 1963

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

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

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

#270

210911

I received and filed this instrument for record on the 17 day of Sept, 1963 at 3:30 o'clock P.M., pursuant to the of Missouri County, State of Missouri

Witness my hand:
MARTIN E. BEHNER, County Recorder
 By Chad M. Lewis Deputy
 Fee \$ 2.00 Paid

RECORDED
 INDEXED
 FILED

1963 SEP 17 3 30 PM
 MISSOURI COUNTY RECORDER'S OFFICE
 JEFFERSON CITY, MISSOURI

NO. 0000000000

MISSOURI

RECORDS

MISSOURI

DEPARTMENT OF REVENUE
 DIVISION OF REVENUE
 STATE OF MISSOURI

RECORDED
 INDEXED
 FILED

1963

2041

294756

I received and filed this instrument for
 record on the 1st day of Sept. 1970.
 at 3:30 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand.
 Veronne R. Cruse, County Recorder
 by *M. M. Conroy* Deputy
 Fee \$ 2.00

On file:
 Exact location of well in the south part of
 lot 13 of Thayer's Country Estates, a platted subdivision of
 Missoula County, Montana.

RECEIVED

County Missoula 35

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

SEP 22 1970

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.

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. K. N. THAYER

Address LOLC CREEK ROAD

For Administrator's Use	
File	<u>294994</u>
	<u>September 17, 1970</u>
	<u>1:20 p.m.</u>

Date well started SEP 1, 1970

completed SEP 2, 1970

Type of well DRILLED

(Dig, driven, bored or drilled)

Equipment used CHURN DRILL

(Churn drill, rotary or other)

Water Use: Domestic Municipal Stock Irrigation

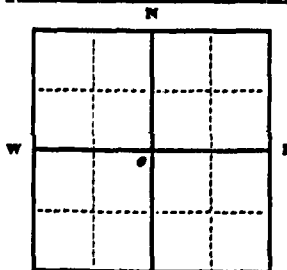
Industrial Drainage Other Garden/Lawn

*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)
<u>6" I.D.</u>	<u>3-5/8" OD</u> <u>17 lbs.</u> <u>1/4" gage wall</u>	<u>GROUND</u>	<u>level 39'</u>			



Static water level .22 ft.*
Pumping water level .37 ft.*
at 10 gallons per minute,
measured minutes after pumping
began.

*Measured from ground level.
Well developed by ball test
for 4 hours.

Power Pump HP

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

Lot 7, Thayer's Cnty. Estates

NE 1/4 SE 1/4 Sec. 35

T. 12 N. R. 21

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

Driller's Signatures Kenneth L. Williams

Driller's Address 1888 So. E. St. Missoula, Mont.

LICENSE NO. 53

Top of Ground (Rev. above sea level)

From (Feet)	To (Feet)	
<u>GL</u>	<u>31</u>	<u>top soil</u>
<u>31</u>	<u>31</u>	<u>top clay, gravel</u>
<u>31</u>	<u>31</u>	<u>clay</u>
<u>31</u>	<u>39</u>	<u>clay, gravel</u>
<u>39</u>	<u>39</u>	<u>gravel</u>

39 ft. Show exact depth of bottom

217540

#42
2042

294994

I received and filed this instrument for
record on the 17 day of Sept 1920
at 120 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
Thomas B. Crosse County Recorder
Donald J. Burnham Deputy
Fee \$2 a. n. c. k. Paid

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. K. N. THAYER
Address LOLO CREEK LOLO, MONT.
Date well started AUG. 28, 1970
completed AUG. 29, 1970

For Administrator's Use
File <u>294755</u>
<u>Sept. 10, 1970</u>
<u>1:25 P.M.</u>
GW #

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

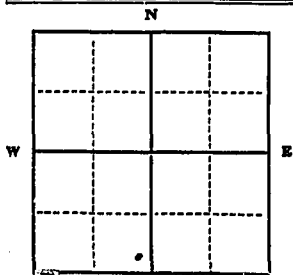
Equipment used CHURN
(Churn drill, rotary or other)

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)
<u>6" ID</u>	<u>6-5/8" OD</u> <u>17 lbs. ground</u> <u>1/4" side-wall</u>	<u>ground level</u>	<u>33' 0"</u>			



Static water level 21 ft.*
Pumping water level 22 ft.*
at 20 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by ball & sub
for 5 hours. test pump
Power 220 Pump 3/4 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

Lot 8, Thayer's Country Estates
SE 1/4 SW 1/4 Sec 35
T. 12 N. R. 21 EX
S W

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

Driller's Signature Herbert J. Williams

Driller's Address 1558 So. 5th W. Missoula, Montana

LICENSE NO. 151

DRILLER'S LOG

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

Top of Ground		(Elev. above sea level)
From (Feet)	To (Feet)	
<u>01</u>	<u>2'</u>	<u>top soil</u>
<u>2'</u>	<u>4'</u>	<u>tan clay (sandy)</u>
<u>4'</u>	<u>24'</u>	<u>tan clay, sand & gravel & boulders</u>
<u>24'</u>	<u>31'</u>	<u>tan clay & gravel</u>
<u>31'</u>	<u>33' 0"</u>	<u>sand, gravel & water</u>

33' 0" Show exact depth of bottom

217510

2040

294755

I received and filed this instrument for record on the 10th day of Sept, 1970, at 2:30 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:
 Verance R. Crouse, County Recorder
 By M. P. [Signature] Deputy
 Fee \$2.00 Paid [Signature]

*As follows: Exact location of well is in the south part of Lot 13 of Thayer's County Estates, a platted subdivision of Missoula County, Montana.

MISSOULA COUNTY, MONTANA
 REC'D - [Signature]

RECEIVED

County Missoula **35**

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

SEP 5 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

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.

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 Lowell Truaty
ERICA F. TRUSBY

Address Lolo Creek

Lolo, Montana

Date well started Aug. 15, 1972
completed Aug. 17, 1972

For Administrator's Use	
File #	<u>2924-321463</u>
Date	<u>Aug. 30, 1972 - 11:02 a.m.</u>
GW #	<u>1</u>

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

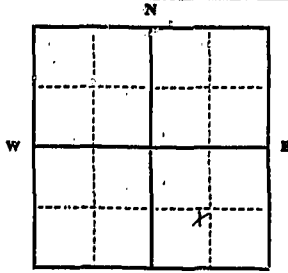
Equipment used Churn Drill
(Churn drill, rotary or other)

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 (Foot)	To (Foot)	PERFORATIONS		
				Kind	From (Foot)	To (Foot)
6"ID	17 lb per ft.	2'6" from pit bottom				
				none		



Static water level46.....ft.*
Pumping water level54.....ft.*
at20.....gallons per minute,
measured ...1...minutes after pumping
began.
*Measured from ground level.
Well developed by test pump
for2.....hours.
Power Elec Pump 3/4 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

1/4 SW 1/4 Sec. 25
T. R N. 71 E. W
S

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

Driller's Signature Glenn Camp
CAMP WELL DRILLING & PUMP SUPPLY
Driller's Address 1522 S. 14th W., Missoula, Montana 59807

LICENSE NO. 7

Top of Ground (Elev. above sea level)		
From (Feet)	To (Feet)	
0	6	Lolo Creek
		Pit
6	20	Boulders, Clay, Gravel
20	25	Sandy Clay, Gravel Soap of water
25	46	Yellow Clay & Gravel
46	47	Sand and water
47	57	Gravel & Yellow Clay
57	65	Sand, Gravel & Water
65	67	Gravel & Water

67' Show exact depth of bottom

51,304

File No. _____

STATE WATER CONSERVATION BOARD

T. 12 R. 21

DUPLICATE

MAY 18 1967

County Missoula

LOG By: McDermott STATE OF MONTANA
By: McCarthy ADMINISTRATOR OF GROUNDWATER CODE
Checked by: Morton OFFICE OF STATE ENGINEER
Date: _____
Driller: Sully

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

(Under Chapter 237, Montana Session Laws, 1961)

0	Top of Ground
6	(Elev. above sea level)
6	tan clay, sand and gravel
7	boulders
7	tan clay, sand and gravel
12	sand
14	tan clay, sand, gravel and boulders
17	tan clay, sand and gravel
27	sand, gravel and water
27'3"	tan clay, gravel and sand
32	bedrock
36	

Owner: ERNEST VOSS Address: LOLO CREEK ROAD

Driller: KEN WILLIAMS Address: 1219 HOWELL ST.

Date of Notice of appropriation of groundwater: _____

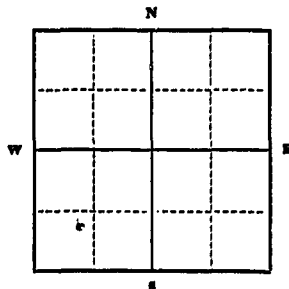
Date well started: FEB. 28, 1966 Date completed: MAR. 3, 1966

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" ID	6 5/8" O.D. 17 lbs per ft. 1" side wall	1 ft. above ground level	36'	torch cut 3"x1/2"	27'	27'-3"



Static Water Level for non-flowing well _____ 19 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 33 feet

at 2 1/2 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested: BAIL TEST

Length of Test: 8 hours

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

S.W. 1/4 Sec. 35 T. 12 R. 21
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).

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.

Driller's License Number 151

Driller's Signature Ken Williams

41,999 ~~41,599~~

1705

260700

I received and filed this instrument for
record on the 16 day of May 1967
at 11 o'clock A.M., permanent files
of Missoula County, State of Montana
Witness my hand:
Veronica R. Crouse, County Recorder
By Alvin J. [Signature] Deputy
Fee \$ 7.00 Paid ck

MISSOULA COUNTY RECORDER
MISSOULA, MONTANA

File No. _____

T. 12^N R. 21^W S. 35

DUPLICATE

County Missoula

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	tan clay, sand, gravel
17	and boulders
17	tan clay, sand
25	and gravel
25	sand, gravel
28	and water

Owner Gerome Weinand Address Lolo Cr. Rd.

Driller Ken Williams Address 1219 Howell St.

Date of Notice of appropriation of groundwater _____

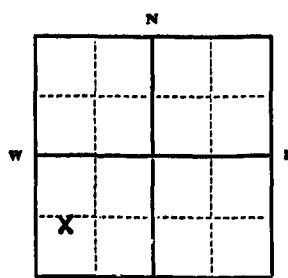
Date well started Oct. 14, 1965 Date completed Oct. 16, 1965

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" ID	65/8 O.D. 18.97 lbs. per ft.	1'-7" above ground level	26'			



Static Water Level for non-flowing well _____ 21 _____ feet.
Shut-in Pressure for Flowing Well _____
Pumping Water Level _____ 25 _____ feet
at _____ 16 _____ gal. per minute.
Discharge in gal. per min. of flowing well _____

How Tested Bail Test
Length of Test 6 Hours

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

Lot 6 Loloview Acres #12

SW 1/4 Sec 35 T 12 R 21
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

151
Driller's License Number

Ken Williams
Driller's Signature

GROUNDWATER INDEX

County MISSOULA

Twp. 12 NORTH Rge. 20 WEST

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
1	Burgess, Jasper	MW4	211990	
1	Burgess, Jasper	1957 Reg	148847	
1	Bullock, W.E. & BT	MW4	21570	
1	Crowe, Bob	MW2	261047	
1	Eyre, Carl M.	MW2	219526	
1	Elmer, Everette P.	MW2	318692	
1	Gray, Mary Ann	MW2	307088	
1	Hay, Edward J.	MW1	220769	old axis no GWA
1	Kelton, Ough J.	MW4	215138	
1	Kelton, Richard	MW4	215137	
1	Kobler, Horace H.	MW2	33755	
1	Koehler, Horace H.	MW2	33754	
1	Kory, Carl C.	MW4	214608	
1	McDermott, Charles	MW4	219907	
1	Miller, Angella	MW2	233469	
1	Morgan, Harold	MW2	298933	
1	Schweitzer, Robert	MW4	215423	
1	Spence, Sherman T.	MW2	280319	
1	Stetson, H.C.	MW2	313850	
1	Stork, Henry	MW4	1247	
1	Torgerson, Dale	MW2	254008	
1	Woss, Elvin J.	MW2	197155	
1	Worton, Robert	MW4	215047	
1	Wright, J. H.	MW4	1141	
2	Waller, J. C.	1957 Reg	161069	
2	Warren, James	MW2	293658	
2	W.G.O. Broadcast	MW4	215390	
2	Wohlhase, Harold	MW4	215081	
2	Frank, Rudolph	MW2	202659	
2	Maloney, Danell	MW4	213977	
2	Maloney, Daniel	MW3	214536	
2	Malloy, Lewis	MW2	284838	
2	Neil Miller Co.	MW2	261209	
2	Miller, Neil	MW2	260241	
2	Perreux, Don A.	MW2	317418	
2	Perreux, Rene A.	MW4	215019	
2	Olopson, Clifford	1957 Reg	158182	
2	Oliver, Robert C.	MW2	279066	
2	Wornath, Gus	MW2	217114	
6	Fournier, L.D.	MW2	215533	
6	Montana Power	MW2	258740	
7	Cole, James H.	MW4	215348	
7	Cole, James H.	MW4	215535	
8	Lamoreaux J.B.	MW3	259692	
9	Pollock & Westcott	MW4	214396	
9	Lamoreaux J.C.	MW2	259601	continuation of 8

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County Missoula Twp. 12 North Rge. 20 West

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
10	Ahern, William J.	MW4	215841	
10	Anderson, Leroy	MW2	213730	
10	Backstrom, Martin	MW4	1133	missing
10	Beattie, Vernon F.	MW2	249120	
10	Blustic, Henry A.	MW2	334373	
10	Blue Mountain Fed. Co.	MW2	306530	
10	Boyle, John F.	MW4	237084	
10	Boyle, John F.	MW2	237085	
10	Hanson, Julia O.	MW3	215229	
10	Ortli, June G.E.	MW2	233765	
10	Stoddard, Ray W.	MW2	235297	
11	Boggs, Robert	MW4	215209	
11	Joles, Clarence L.	MW4	215186	
12	Brown, Merlin	MW2	291323	
12	Connolly, Donald	MW2	299790	
12	De Clerc, Ernest	MW2	262203	
12	Felton, John	MW2	274418	
12	Gordon, Charles	MW2	296031	
12	Gustafson, Erling	MW2	261351	
12	Harris, Ellis	MW4	214967	
12	Hodges, B. R.	MW2	260104	
12	Holbrook, Charles	MW2	291682	
12	Kay, Sylvia	MW2	261355	
12	Keffeler, Don J.	1977209	150208	
12	Ferr, Russell D.	MW4	215457	
12	Kanjour, Madron	MW2	306155	
12	Morton, Henry	MW2	220556	
12	Mosier, Edward	MW2	227803	
12	Plidt, John	MW2	2113	
12	Viola, Linda	MW2	208774	
12	Preese, Sherman J.	MW4	215527	
12	Ricketts, Thomas	MW4	1186	
12	Harner, Douglas	MW2	323806	
12	Smith, Verne	MW2	248971	
12	Stanger, Wade	MW2	331052	
12	Stoville, Irving	MW2	296112	
12	Tagest, Jack	MW2	300599	
12	Tucker, Darrell	MW2	300783	Tr
12	Switz, Jack	MW2	295154	straw
12	Voeller, James	MW2	310368	
13	Durlan, Russell	MW2	295306	
13	Durlan, William	MW2	292238	
14	Maloney, Daniel	MW4	214002	
14	Maloney, Daniel	MW4	213996	
15	Brageb, Paul J.	MW4	216336	
15	Yerls, James	MW2	228626	

Tr - Transfer (Form 608)

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County Missoula Twp. 12 North Rge. 20 West

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
15	Neil, James F.	MW2	235826	
15	Lomoraux, J.S.	MW2	239873	
15	Lomoraux, J.M.	MW3	210451	
15	Stocking, L.B.	1457 Log	160961	
20	Maloney, Dennis	MW4	214001	
22	Silverton, John	MW2	271745	
22	Wiel, Darrell W.	MW4	215121	
22	Moe, John C.	MW2	223440	
15	Backstrom, Martin	MW4	7133	
22	Moe, John C.	MW2	316561	
22	Rosignol, Richard	MW1	147824	Filed 6W-16 No. 6W2
22	Rosignol, Richard	MW4	147825	
22	Rosignol, Richard	MW2	333911	
22	Rosignol, Richard	MW4	197963	
22	Rosignol, Richard	BW4	197962	
22	Shultz, Edward	BW2	271623	
25	Albert, Robert	MW2	291731	
25	Johnson, Glenn	MW2	289629	
25	Jordan, Ralph	MW2	315458	
25	Krudson, Robert J.	MW2	300489	
25	Oldgard, Peter	MW2	311991	
25	Stevens, Hoyt B.	MW2	281190	
25	Steverwood, Gary	MW2	332440	
26	Baldwin, Ruby	MW4	282589	
26	County of Missoula	MW2	283298	
26	Day, Norman	MW2	291079	
27	Worthing, John	MW2	226510	
26	Rosignol, Richard	MW2	290748	
26	Rosignol, Richard	MW2	333912	
26	Rosignol, Richard	MW3	197922	
26	School District #7	MW4	194474	
33	Dard, Richard	MW2	289076	
33	Douglas, Chuck	MW2	330323	
33	Hendrickson, Alfred	MW3	223727	
33	Janey, Harold	MW3	223728	
33	Spang, Robert	MW1	201152	Filed 6W-16 No. 6W2
33	Spang, Robert	MW2	201151	" " " "
33	Nasgaard, Vance	MW2	274438	
33	Smerson, Edward B.	MW2	298532	
33	Vann, Bill	MW2	281235	
34	Ahlen, Della M.	MW4	1143	
34	Hill, Gordon W.	MW2	294091	
34	Makinstry, Dorothy	MW4	215110	
34	McKinstry, Dorothy	MW4	215109	
34	Mendenhall, Duke	MW2	334187	
34	Lias, Ed M.	MW2	278528	

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County Maricopa Twp. 12-North Rge. 20 West

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
34	Loe, Donald M	SW2	293248	
34	Shively, John	SW1	1266	Filed 6-15-15 No. 12
34	Thompson, Theodore	SW2	330591	
34	Vann, John H	SW4	215483	
35	Railey, Albert C.	SW2	281583	
35	Beattie, Vernon L.	SW2	249121	
35	Beattie, Vernon L.	SW2	249119	
35	Cowan, F.S.	SW4	215103	
35	Damuser, James C.	SW2	248370	
35	Dill, Richard	SW2	300655	
35	Dill, Richard	SW2	319002	
35	Dishman, A.A.	SW4	1101	
35	Dishman, A.A.	SW4	1122	
35	Dishman, Hugh E.	SW4	1129	
35	Dishman, Ora L.	SW2	264459	
35	Eaves, Ray H.	SW4	1248	
35	Eaves, Ray H.	SW4	1249	
35	Ferguson, Ada	SW2	274940	
35	Hirshy, Wilbert	SW4	215897	
35	Hirshy, Wilbert	1957 Log	?	
35	Kester, Fred E.	SW2	259953	
35	Kester, Fred E.	SW2	272234	
35	Kester, Fred E.	SW2	215499	
35	Kester, Fred E.	SW4	215497	
35	Lane, Walter W.	SW2	310133	
35	Larson, Norman W.	SW4	1107	
35	Larson, Norman W.	SW2	246350	
35	Larson, William	SW2	330674	
35	Lolo Golf Club	SW2	272711	
35	McCarty, Walter	SW4	218446	
35	Meckler, Frank P.	SW2	330599	
35	Middlemist, Rose	SW2	215601	
35	Mills, E.C.	SW4	215541	
35	Munson, Harold	SW4	290340	
35	Murphy, James P.	SW2	306887	
35	Nolan, Francis L.	SW2	261737	
35	Preston, Charlie	SW3	283295	
35	Reibi, Arden	SW4	215411	
35	Reibi, Arden	SW4	215412	
35	Rossignol, Richard	SW4	197964	
35	Rossignol, Richard	SW4	197961	
35	Roy, John	SW4	215460	
35	Scharbono, Frank	SW2	23956	
35	Schmartz, Ken	SW2	327064	
35	Tripp, Don	SW2	264673	
35	Tripp, Don	SW2	264674	

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County Missoula Twp. 12 North Rge. 20 West

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
35	Tripp, Don	GW 2	295720	
35	Trollope, Charles	GW 4	215371	
35	Widong, Louise G.	GW 2	216924	
35	Wirth, Gordon L.	GW 4	273333	
12	Cabe, Howard R.	GW 2	243643	
35	Sup-Mobile Amos Inc.	GW 4	214767	
35	Nordgren, Fred	GW 2	213876	
?	Smith, Francis E.	GW 4	1253	
?	Zaddnick, John	L-W 4	215310	
12	Roscoe, Charles	well log	184016	
12	Gregory, Horace W.	GW 2	1859	
12	Masick, Edward E.	"	227803	
12	Nickerson, Seth	"	208244	
22	Hill, Derral W.	GW 4	215121	

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File No. _____

T. 12N R. 20W

DUPLICATE

County Missoula

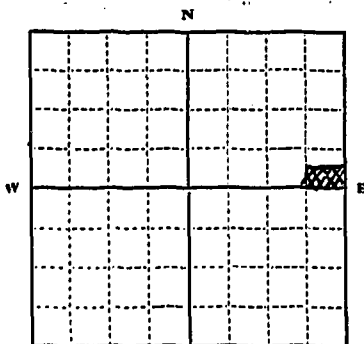
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 15 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Jasper W. Burgess, of Route 3 Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 1 T. 12N R. 20W

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 Deep Well - July 1954
Shallow Well 1920's (old cold sprig)

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Deep Well 30 G.P.M.
Shallow 25 G.P.M.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof 5 Acres Lot 32 South Side Ham
Sec. 1, T. 12N. R. 20W
(SE 1/4, SE 1/4, SE 1/4)

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Deep Well Pump on Deep Well
Shallow Well Pump on Shallow Well

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Deep Well July 1954
Shallow Well early 1920's

8. The depth of water table Deep Well 92 FEET, Shallow Well 26 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 Deep Well 9" casing 92 FEET
Shallow Well, dug 48" diam. 26 FEET

10. The estimated amount of groundwater withdrawn each year Deep Well - 200,000 Gallons
Shallow Well - 150,000 Gall

11. The log of formations encountered in the drilling of each well if available Deep Well 0-7' pit
7-45' sand & gravel, 45'-48' clay, 48'-60' sandy clay, 60'-86' clay sand gravel
86'-90' sand, 90'-92' sand and gravel
Shallow Well 0-26' 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.

Signature of Owner Jasper W. Burgess
Date Sept. 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.

6404.

288

211890

I received and filed this instrument for
record on the 11 day of Oct 1963
at 2:30 P.M. permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By John A. Ballou Deputy
Fee \$ 2.00 Paid

RECEIVED
JAN 9 1958

T. 12 N. R. 20W
County Missoula

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Jasper W Burgess Address Road # 3, Missoula
Driller Liberty Drilling & Pump Co Address Missoula
Date Started: July 1957 Date Completed Aug. 1957
Location: Sec. 1 T. 12 N. R. 20W ¼ sec. 64 32

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

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

Casing: Top ft. to Bottom ft. Type Black welded Size 4"
Casing: 86 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 None

Static Water level, for non-flowing well: Twenty six (26) feet

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

Pumping water level _____ feet at _____ gal. per min.

How tested: bailey

Length of test: 4 hours

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

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	7	Pit
7	45	Sand and gravel
45	48	Clay
48	60	Sandy clay
60	62	Clay
62	86½	clay gravel and sand
86½	90	Sand
90	92	Sand and gravel
		cut off 11'-7"

19 148847

I received and filed this statement by record on the 8 day of June 1958 at the office of the Recorder of Deeds of Mississippi County State of Missouri. Wm. H. B. Smith, Recorder. ENELEN L. LIND, Deputy Recorder. By [Signature] Date 6/17/58 Fee \$ 5.00

File No. _____

T. 12^N R. 20^W

DUPLICATE

County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

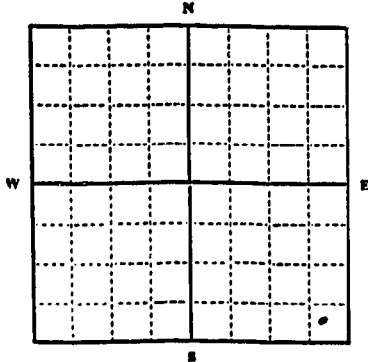
RECEIVED
DEC 30 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

W.E. & B.J. Burton of Route #3 Musarak
(Name of Appropriator) (Address) (Town)

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



SE 1/4 Sec. 1, T12N R20W

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

2. The beneficial use on which the claim is based Home & Garden Use

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 500 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
Partial share the only crop wheat

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

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

8. The depth of water table 95 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 inch drilled well

10. The estimated amount of groundwater withdrawn each year Unknown Home use only

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

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 _____

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.

411

215120

Copy
I received and filed this instrument for
record on the *30* day of *Dec.* 19*68*
at *10:15* o'clock *A.M.*, permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN E. BISHOP, County Recorder
By *[Signature]* Deputy
Fee \$ *2.00* Paid

File No. _____

MAY 31 1967

T. 12 R. 20

DUPLICATE

Billie _____ M. Dermott _____
Buttrick _____ M. Nulty _____
Coye _____ Morton _____
Dunham _____ Sullivan _____
Dunham _____

County Silver

LOG

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Top of Ground
(Elev. above sea level _____)

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

0-3 Top Soil

3-12 Sand and small gravel -- Water at 12 ft.

12-23 Sand

23-28 Clay

28-33 Sand, Gravel & Water

Owner BOB CROWE Address Lower Miller Creek

Driller Glenn Camp Address 1522 S. 14th

Date of Notice of appropriation of groundwater _____

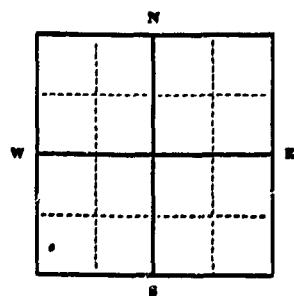
Date well started April 27, 1967 Date completed May 1, 1967

Type of well Drilled Equipment used Charn Drill
(Dug, driven, bored or drilled) (Charn 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.

Diameter of Hole	Size and Weight of Casing	From (Foot)	To (Foot)	PERFORATIONS		
				Kind	From (Foot)	To (Foot)
6" I.D.	6" I.D. 17 lb per ft C.L.	2' above G.L.	25' 3"	NONE		



Static Water Level for non-flowing well _____ 11 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 25 feet
at 40 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested COMPRESSOR

Length of Test 2 hours

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

W/2 Sec. 1, 1/4 Sec. 1, T. 12, R. 20.
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

License # 7

Driller's License Number

Glenn Camp
Driller's Signature.

42,032

1709 - 261047

I received and filed this instrument for record on the 26 day of May, 1967, at 1:10 o'clock P.M., pursuant to files of Missoula County, State of Montana. Witness my hand: Vermon H. Cross, County Recorder By *[Signature]* Deputy Fee \$2.00

1 copy of this instrument
Vermon H. Cross
County Recorder

RECEIVED

County... Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

JUN 29 1972

DRILLER'S LOG

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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.

(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 Carl N. Eyre & Eunice P. Eyre

Address Pine Grove

Missoula, Montana

Date well started 5/31/72

completed 6/7/72

For Administrator's Use	
File #	<u>2297-38526</u>
Date	<u>June 23, 1972 1:40 p.m.</u>
GW 1	

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

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

Water Use: Domestic Municipal Stock Irrigation

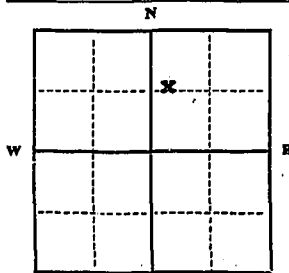
Industrial Drainage Other * Garden/Lawn

*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). Government Lot 2, 94 acres

ESTIMATED ANNUAL WITHDRAWAL 36,792.00 gallons

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 1/4"	+1.5'	93'	Torch Cut	90	93



NW 1/4 NE 1/4 Sec. 1
T. 12 N. R. 20 E
36 W

Static water level 22'10" ft.*
Pumping water level 46 ft.*
at 70 gallons per minute,
measured 360 minutes after pumping
began.

*Measured from ground level.
Well developed by Air Lift Pump
for Six hours.

Power Gas Pump 30 HP

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well through perforations in six inch casing. Wells in this area can be depended
cont'd

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

LIBERTY DRILLING COMPANY

Driller's Signature W. J. Dalme

Driller's Address 2500 Reserve Street

Missoula, Montana LICENSE NO. 52

Top of Ground Approx. (Elev. above sea level) 3130'

From (Feet)	To (Feet)	
0	1	Black dirt
1	12	Fine dirty sand and gravel
12	15	Gravel mixed in clay
16	56	Fine sand and gravel
56	85	Very fine sand and gravel. Some water
85	90	Silty sand and gravel
90	93	Clean coarse sand and gravel. Water

93 ft. Show exact depth of bottom
Water rises in the well
22'10" from surface. 50,760

2237

318526

I received and filed this instrument for record on the 23 day of January 1972 at 10 o'clock P.M. permanent files of Missoula County, State of Montana

Witness my hand
 Vermae R. Crease, County Recorder
 By John A. Crease, Deputy
 Fee \$ 2.00 Paid Back

MISSOULA COUNTY RECORDS
 DIVISION OF RECORDS
 1000 W. MAIN ST.
 MISSOULA, MONTANA 59801

RECORDED
 INDEXED
 FILED

MISSOULA COUNTY RECORDS
 DIVISION OF RECORDS
 1000 W. MAIN ST.
 MISSOULA, MONTANA 59801

RECORDED
 INDEXED
 FILED

CD K 50	JAN 24 03	CHF	20	03
C 2301		JORCH		

of 10
 Published water level 40
 Gage water level 55.10e

MISSOULA COUNTY RECORDS
 DIVISION OF RECORDS
 1000 W. MAIN ST.
 MISSOULA, MONTANA 59801

MISSOULA COUNTY RECORDS
 DIVISION OF RECORDS
 1000 W. MAIN ST.
 MISSOULA, MONTANA 59801

42300

318692

I received and filed this instrument for record on the 25th day of August 1908 at 12:12 o'clock P.M. permanent files of Missoula County, State of Montana. Witness my hand. James H. Crouse, County Recorder. By S. J. Osaj Deputy. Fee \$ 3.00 Paid

ADDITION TO HAVE

RECORDED TO THIS INSTRUMENT TO BE KEPT IN THE RECORDS OF THE COUNTY OF MISSOULA

INDEXED
FILED
MISSOULA COUNTY, MONTANA
AUG 25 1908
S. J. OSAJ, Deputy Recorder

2177

307088

I received and file this instrument for
 record on the 17th day of Sept. 1911
 at 12:30 o'clock P.M. permanent file
 of Missions County, State of Montana
 Witness my hand
 Vermon R. Cress, County Recorder
 By W. S. S. Deputy
 Fee \$ 2.00 Paid

WALS

RECORDED
 INDEXED
 MISSIIONS COUNTY
 MONTANA
 SEP 21 1911

Notes Cont'd.

Wells in this area can be depended upon to produce clear sand free water
 year after year as long as they are not overpumped, i.e., they should be pumped
 at rates not in excess of 50 to 60 percent of the tested capacity of the aquifer.

STANDARD SYSTEMS

Register
 100
 30
 111

File No.

T. 12 N. Range 20 W.

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
APR 23 1964
STATE ENGINEER

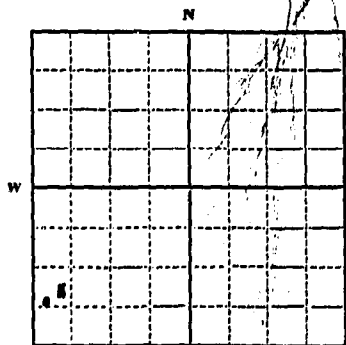
Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

- I, Edward J. Hay c/o Ma D. Lee, of RFD 3 Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
- The beneficial use to which water is to be applied is Irrigation of nine acres and house hold use.
(describe lands to be benefited, if for irrigation)
- The rate of use in gallons per minute or miner's inches of groundwater claimed 80 gallons per minute
- The annual period (inclusive dates) of intended use May through Sep. for irrigation 12 months per year for house hold use
- The probable or intended date of first beneficial use April, 1964
- The probable or intended date of commencement and completion of the well* or wells*
Wells are commenced at present, completion by May 1, 1964
- The location, type, size and depth of well or wells contemplated Dug well two foot diameter, 18 feet deep, dug well 4 ft by 8 ft, 10 ft deep.
- The probable or estimated depth of the water table or artesian aquifer Average depth of water 14 ft on high ground, 7 ft on low ground.
- Name, address and license number of the driller engaged none

10. Give such other similar information as may be useful

in carrying out the policy of this act.

The wells are 1/4th mile from river in river bottom, are located in a very thin layer of gravel.



S.W. 1/4 Sec. 1 T. 12 N. R. 20 W.
Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Edward J. Hay

Date Jan 20 64

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

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

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

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

35621

1402

220569

State Engineer

copy

I received and filed this instrument for
 record on the 21st day of April 1984
 at 2:00 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 MARTIN S. BEHNER, County Recorder
 By D. J. [Signature] Deputy
 Fee \$ 2.00 Paid

File No. _____

T 12 N R 20

DUPLICATE

County _____

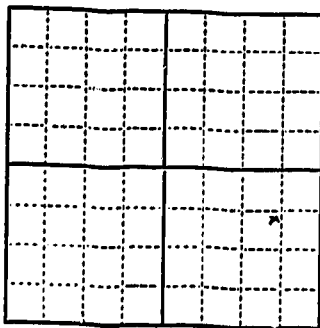
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Joseph J. Katzan (Name of Appropriator), of 5123 Orchard Ave. Missoula (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



N.E. 1/4 Sec. 1 T.12 R.20

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

- 2. The beneficial use on which the claim is based Home garden and lawn irrigation.
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been Sept. 20 1961, has been in use every day and night.
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 2 @ 1/2 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 used to irrigate 1.7 acres of lawn and garden.
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric submersible pump.

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Sept. 14, 1961.
- 8. The depth of water table 93 feet of water in well for 40 feet from top of observation.
- 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" well casing 133' deep.
- 10. The estimated amount of groundwater withdrawn each year 3,000,000 Gallons.
- 11. The log of formations encountered in the drilling of each well if available 0-4 gravel 4-40 clay 40-43 gravel 43-127 clay 127-133 gravel & 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 None.

Signature of Owner Joseph J. Katzan
Date Dec. 27 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.

215-138

I received and filed this instrument for
record on the 30 day of Dec 1967
at 11:30 o'clock A.M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEINER, County Recorder
By Walter J. [Signature] Deputy
Feb 5 1968 Filed

File No. _____

T. 12 R. 20

DUPLICATE

County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

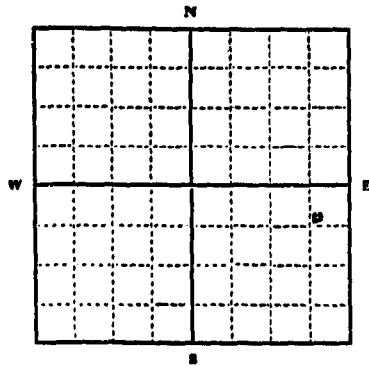
RECEIVED
JAN 3 1969

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961) STATE ENGINEER

1. Reinhold G. Kitzan, of Route 3 Missoula
(Name of Appropriator) (Address) (Town)

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



N.R. 1/4 Sec. 7 T. 12 R. 20

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 Law Garden, Home and Farm

3. Date or approximate date of earliest beneficial use; and how continuous the use has been August 31, 1956 - Day and night

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Gardens of irrigation and stock water for R. G. Kitzan (Garden about 1 acre)

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 Aug. 31, 1956

8. The depth of water table 65 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. 6-5 gravel & fine rock 5-20 grey sand 20-32 Boulder & Tan sand 32-38 Tan clay 38-43 fine gravel some water 43-48 Tan clay 48-52 Tan sand and clay 92-108 Blue Green Clay 108-112 Gravel Sand Boulder and water

10. The estimated amount of groundwater withdrawn each year 1 1/4 million gallons

11. The log of formations encountered in the drilling of each well if available See figure 9. Should be 4" casing 112 feet deep. Figure 9 log should be listed here.

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 Reinhold G. Kitzan
Date Dec 30, 1963

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

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

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

728

215 137

I received and hold this instrument for
record on the 7th day of Dec 1965
at 11:30 o'clock A.M., permanent files
of Missouri County, State of Missouri
Witness my hand:
MARTIN S. BISHOP, County Recorder
By [Signature]
Fee \$ 1.00 Paid

RECEIVED

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

JUL 19 1973

DRILLER'S LOG

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

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.

(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 Horace H. Koewaler

Address Box 1347

Missoula, Montana

Date well started 5/31/72

completed 6/6/72

For Administrator's Use	
File	<u>2598, 33195</u>
	<u>9.25 a.m.</u>
GW 1	<u>July 11, 1973</u>

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Air Rotary

(Chain drill, rotary or other)

Water Use: Domestic Municipal Stock Irrigation

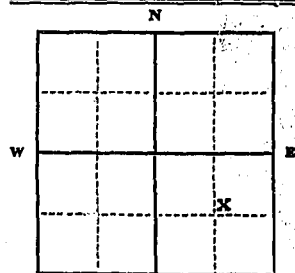
Industrial Drainage Other * Garden/Lawn

*Describe

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition). Lot 46 & 45 South Side Homes

ESTIMATED ANNUAL WITHDRAWAL 78,840,000 gallons

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	2 5/8" OD x 1/2"	+2	153	N	O	N



N 1/4 SE 1/4 Sec. 1
T. 12 N. R. 20 E

Static water level 65 ft.*
Pumping water level 84 ft.*
at 150 gallons per minute,
measured 180 minutes after pumping began.

*Measured from ground level.
Well developed by Air Lift Pump
for Three hours.

Power Diesel Pump 150 HP

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

entering well through

open bottom of eight inch

casing. Wells in this

area can be depended

cont'd

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

LIBERTY DRILLING COMPANY

Driller's Signature [Signature]

Driller's Address 2500 Reserve Street

Missoula, Montana LICENSE NO. 52

Top of Ground Approx. (Elev. above sea level) 3200'

From (Feet)	To (Feet)	
0	2	Topsoil
2	21	Sand & gravel, rather loose
21	40	Tightly bound sand & gravel
40	42	Tightly bound sand & gravel mixed in tan clay
42	60	Yellow sand & gravel
60	76	Fine yellow sand
76	120	Gravel & sand mixed in tan clay. Seeps
120	148	Sand with coarser gravel mixed in tan clay
148	153	Clean coarse gravel. Water.

153 ft. Show exact depth of bottom
Water rises in the well
65 ft. from surface.

56081

2598

33755

I received and filed this instrument for record on the 11 day of July 1973 at 9:25 o'clock A. M. permanent files of Missoula County, State of Montana

Witness, my hand:
 Dorothy L. Head, County Recorder.
 By Donna E. Conroy Deputy
 Fee \$ 2.00

upon to produce clear sand free water year after year as long as they are not overpumped, i.e., they should be pumped at rates not in excess of 50 to 60 percent of the tested capacity of the aquifer.

MISSOULA COUNTY CLERK
 RECEIVED JUL 11 1973
 MISSOULA, MONTANA

0

RECEIVED

JUL 19 1973

County, Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

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.

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 Horace H. Koessler

Address Box 1347

Missoula, Montana 59801

Date well started 5/17/73

completed 5/24/73

For Administrator's Use	
File	<u>324754-2597</u>
	<u>July 11, 1973</u>
GW 1	<u>9:30 a.m.</u>

Type of well Drilled

Equipment used Cable Tools

Water Use: Domestic Municipal Stock Irrigation

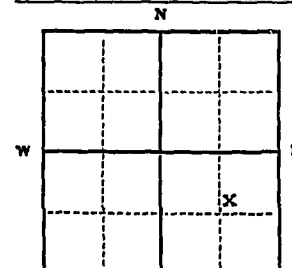
Industrial Drainage Other Garden/Lawn

*Describe _____

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block Lots 45 and 46 and Addition), Southside Home Addition

ESTIMATED ANNUAL WITHDRAWAL 52,560,000 gallons

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 3/4"	+1'6"	132	5 9/16" OD Shopmade screen torchcut	132	140
A flush tube extension at top of screen is welded out to form a tight seal inside six inch casing. Tailpipe with steel plate solidly welded in bottom extends						



NE 1/4 SE 1/4 Sec 1
T. 12 N R. 20 G. 8 W

Static water level 64 ft.*
Pumping water level 105 ft.*
at 100 gallons per minute,
measured 540 minutes after pumping
began.
*Measured from ground level.
Well developed by Airlift Pump
for Nine hours.
Power Gas Pump 30 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff) All water
entering well through
slot openings in water
well screen. Wells in
this area can be de-
cont'd

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

Driller's Signature William F. Osborne

Driller's Address 2500 Reserve Street

Missoula, Montana 59801 LICENSE NO. 52

Top of Ground Approx (Elev. above sea level) 3194'

From (Feet)	To (Feet)	
0	34	Brown sand & gravel
34	36	Tan silty clay
36	66	Gravel, cobblestones & boulders embedded in clay
66	99	Tan silt with gravels mixed in
99	105	Tan silty clay with few gravels mixed in
105	108	Silty sand & gravel
		Some water, formations to fine & silty to successfully develop well
108	113	Silty sand & gravel with stringers of clay
113	116	Sand & gravel embedded in clay
116	132	Gravel embedded in light brown clay
132	138	Sand & gravel. Some water
138	139	Coarse sand & gravel Water
139	142	Sand & gravel. Water

142' Show exact depth of bottom Water rises in well 64 feet from surface.

56082

2597

334754

I received and filed this Instrument for record on the 11 day of July, 1973 at 9:30 o'clock A.M. permanent files of Missoula County, State of Montana

Witness my hand:
 Dorothy L. Head, County Recorder
 By [Signature] Deputy
 Fee \$2.00 Paid [Signature]

pended upon to produce clear sand free water year after year as long as they are not overpumped, i.e., they should be pumped at rates not in excess of 40 to 50 percent of the tested capacity of the aquifer.

Produced water 1974 103
 2016 Water 1001 82

File No. _____

DUPLICATE

T. 12^N R. 20^W

County Miss -

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 23 1963

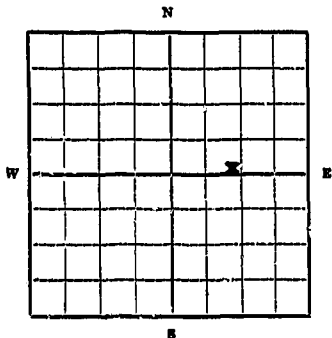
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Earl C. Lory of Rt 3 Bitterroot Road Missoula
(Name of Appropriator) (Address) (Town)

County of Missoula State of Montana

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



SW 1/4, Sec. 1, T.12N R.20W

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 use and irrigation of land

3. Date or approximate date of earliest beneficial use; and how continuous the use has been August 1956 and continuously since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Forty 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 1.08 acres of garden, orchard and pasture. Owner, E. C. Lory

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pump powered by electricity. Deep well pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started Nov. 1, 1955, Completed December 20, 1955

8. The depth of water table 14 feet below top of well. Depth of well 87 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 is 87 feet deep cased with six inch steel pipe.

10. The estimated amount of groundwater withdrawn each year 300,000 gallons

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 Not applicable

Signature of Owner Earl C. Lory

Date December 19, 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.

478

214608

I received and filed this instrument for
 record on the 20 day of Dec 1968
 at 2:30 o'clock P.M. permanent files
 of Missoula County, State of Montana
 Witness my hand.
 MARTIN S. BEHNER, County Recorder
 By Martin S. Behner Deputy
 Fee \$ 5.00 P.M.

MISSOULA COUNTY RECORDS DEPARTMENT
 100 WEST 10TH AVENUE, MISSOULA, MONTANA 59801
 (406) 543-2111

MISSOULA COUNTY RECORDS DEPARTMENT
 100 WEST 10TH AVENUE, MISSOULA, MONTANA 59801
 (406) 543-2111

File No.

DUPLICATE

T. 12th R. 20th W. 1

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

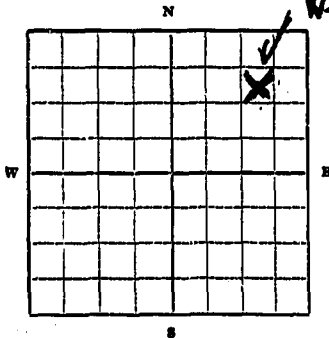
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Charles & Ida M. Pherson of Route 3 Missoula
(Name of Appropriator) (Address) (Town)

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



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

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

2. The beneficial use on which the claim is based Home & Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Father bought place in 1916 & irrigated. Knowledge had been constantly in use since then & for 25 yrs also used for dairy purposes.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gals.

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 Irrigation of lot 3 of Block 3 of Rio Vista Addition Sec 1, T. 12 R. 20 W. M.P.N. Missoula County

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well, electric pump located 2 1/8 feet from house

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater commenced to 1916 as it was on property when purchased

8. The depth of water table 25'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Hand dug well, 32 feet deep 28" wide to 30"

10. The estimated amount of groundwater withdrawn each year 600,000 gals.

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 Charles & Ida M. Pherson

Date Dec 26, 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.

607

214907
Copy

I received and filed this instrument for record on the 26 day of October 1951 at 10:02 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BERLIN County Recorder
 By Martin S. Berlin
 Fee 2.00 Tax

[Faint, mostly illegible handwritten notes and signatures]

[Vertical text on the right side, possibly a signature or date]

[Additional faint text at the bottom right]

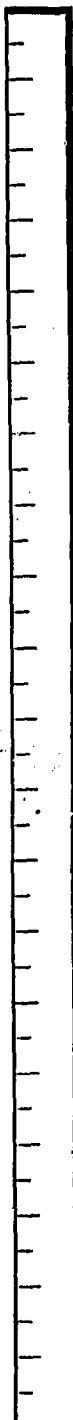
File No.

T 12th R 20th W 1

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
STATE ENGINEER



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

Notice of Completion of Groundwater Appropriation by Means of Well

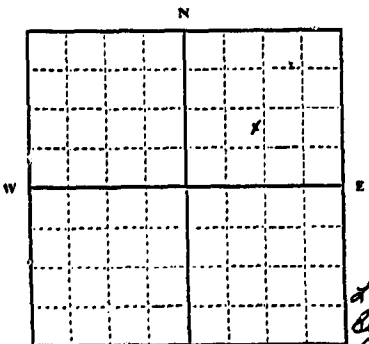
(Under Chapter 237, Montana Session Laws, 1961)

0 to 4' Pit
4' to 8' Sandy clay & gravel
8' to 24' Tight clay & gravel
24' to 32' sandy Clay
32' to 45' Silty sand & water
45' to 48' Gravel sand & silty water
48' to 53' Silty sand & water
53' to 56' Clay & gravel
56' to 59' Silty sand & small gravel
59' to 64' White sand, gravel & water

Owner Angela Miller Address Rt 3, Leona Vista
Driller Glenn Camp 705 Alder Address Missoula, Mont
Date of Notice of Appropriation of Groundwater.....
Date well started 11/13/64 Date Completed 11/15/64
Type of well Drilled Equipment Used Churn drill
(dug, driven, bored or drilled) (Churn, drill, rotary or other)
Water Use: Domestic Municipal Other Irrigation
Industrial Drainage Stock

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5"	5" I.C. 14.634 to ft	9" above pit floor to 61'-9"				



Static Water Level for non-flowing Well..... 31.....feet.
Shut-in Pressure for Flowing Well.....
Pumping Water Level..... 36.....feet at 18.....gal. per minute.
Discharge in gal. per min. of flowing well.....
How Tested..... Compressor.....Length of Test..... 1 1/2 hours.....

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).....
Lot 4
Sub 2
Reserve
addn

SW 1/4 NE Sec. 1, T. 12, R. 20
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

LICENSE # 7
Driller's License Number
Glenn Camp
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.

38992

1579

222469

I received and filed this Instrument for
 record on the 2nd day of Mar 1965
 at 2:10 o'clock P.M. permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Vesnae R. C. County Recorder
 By John J. Mann Deputy
 Fee \$ 2.00 Paid cash

STATE ENGINEERS
BEGER

9

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 Harold L. & Cecilia Morgenstern

Address Route 5
Missoula, Montana

Date well started 9/22/70
completed 9/24/70

For Administrator's Use	
File	<u>299933</u> <u>10:40 A.M.</u> <u>January 26, 1971</u>
GW	<u>1</u>

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

Equipment used Air Rotary & Cable Tools
(Cable drill, rotary or other)

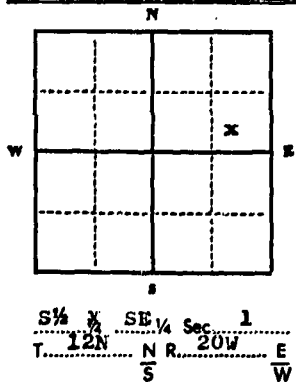
Water Use: Domestic Municipal Stock Irrigation
Industrial Drainage Other Garden/Lawn

*Describe Tree Farm, approximately 8 acres

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). 1.118 Acres, residence

ESTIMATED ANNUAL WITHDRAWAL 5,500,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
8"	8 5/8" OD x 1/2"	+2	137'6"	Water Well Screen	136	146
Tailpipe with solid closed bottom extends from					146	148



Static water level 67ft.*
Pumping water level 126ft.*
at 98gallons per minute,
measured 150 minutes after pumping
began.
*Measured from ground level.
Well developed by Air Lift
for 24hours.
Power 230V Pump 1 1/2 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff) All water
entering well thro
slot openings in water
well screen.

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

Driller's Signature William H. Osborne Owner

Driller's Address LIBERTY DRILLING COMPANY

Missoula, Montana LICENSE NO. 52

DRILLER'S LOG

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

Top of Ground		From (Feet)	To (Feet)	Description
(Elev. above sea level)				
	Appro: <u>3200'</u>	0	1	Black dirt.
		1	26	Sand & gravel. Rather loose
		26	58	Tightly bound sand and gravel
		58	73	Yellow sand
		73	119	Sand and gravel mixed in tan clay
		119	129	Fine sand and gravel with clay stringers. Some water.
		129	148	Clean coarse sand and gravel. Water

148 ft. Show exact depth of bottom

48070

2081

Watt Elyhii

298933

I received and filed this instrument for
 record on the 26th day of June 1971
 at 10:48 a.m. A.M. Hermann time
 of Missouri County, State of Missouri
 Witness my hand
 Vernon R. Crump County Recorder
 By *Carl Pelt* Deputy
 Fee \$.....

MISSOURI COUNTY RECORDS DEPARTMENT
 1000 N. 1st St. - Hannibal, Mo. 64901
 Phone: 524-1111