

2423

328405

I received and filed this instrument for
record on the 26 day of Feb. 1923
at 12:00 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Hood, County Recorder
By Mary Skelley, Deputy
Fee \$ 2.00 Paid

File No. _____

T. 13 N. R. 20 W 35

DUPLICATE

County MISSOULA

LOG

MONTANA WATER RESOURCES BOARD

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

OCT 29 1969

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 3,223)

0 - 6 sandy loam

6 - 27 small gravel
sand & water

27 - 42 sand & water

42 - 48 red clay
no water

48 - 88 heaving sand
& water

88 - 92 gravel & water

Owner Conrad Hansen Address Rte # 1 So. Ave.

Driller Harold K. Pickens Address 3024 So. Ave. Helena

Date of Notice of appropriation of groundwater _____

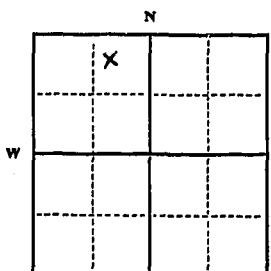
Date well started 8/25/69 Date completed 8/29/69

Type of well drilled Equipment used sable tool
(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)
5 in.	5 1/2 O.D. 16 lbs. per ft.	0	92	NONE		



Static Water Level for non-flowing well
5 ft. of top feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 5 ft. of top feet
at 80 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested COMPRESSOR

Length of Test 3 1/2 hrs.

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

NW 1/4 Sec 35 T 13 N R 20 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.

92 ft

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.

71
Driller's License Number

Harold K. Pickens
Driller's Signature.

45781

1945

285894

LIBR
DUBIT

I received and filed this instrument for record on the 27 day of Oct, 1945 at 1.00 o'clock P.M., permanent files of Missoula County, State of Montana

Witness my hand:
 Verance R. Crouse, County Recorder
 By M. M. Crouse, Deputy
 Fee \$ 2.00 (Paid cash)

MISSOULA COUNTY RECORDERS OFFICE
 100 WEST SECOND STREET
 MISSOULA, MONTANA

MISSOULA MONTANA

Recorded in the office of the County Recorder of Missoula County, Montana, on this 27 day of October, 1945.

Notary Public for Montana

County Missoula 035

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

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

RECEIVED

MAY 25 1971

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 Charles R. Hughes

Address 2317 S. 10 W.

Missoula, Montana

Date well started April 5, 1971

completed April 6, 1971

For Administrator's Use	
File <u>302637</u>	
<u>May 14, 1971</u>	
<u>1:40 PM</u>	
GW 1	

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

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

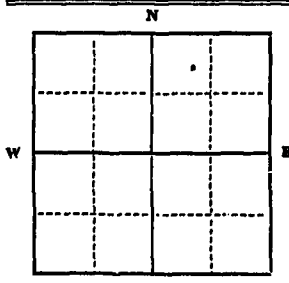
Water Use: Domestic Municipal Stock Irrigation
Industrial Drainage Other * Garden/Lawn

*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" I.D.	6" I.D.	2' above g.l.	50' 3"			
				none		



Static water level 20 ft.*
Pumping water level 30 ft.*
at 40 gallons per minute,
measured 1 minutes after pumping began.

*Measured from ground level.
Well developed by compressor
for 1 hours.

Power Does no Pump apply HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

NW 1/4 NE 1/4 Sec. 35
T. 13 N. R. 20 E.
8 W

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

Driller's Signature Philip A. B. Riffe

Camp Well Drilling & Pump Supply

Driller's Address 1522 S. 14th W., Missoula, Montana

LICENSE NO. 7

Top of Ground (Elev. above sea level)		
From (Feet)	To (Feet)	
		<u>Glen Drive</u>
<u>0</u>	<u>1</u>	<u>Black Topsoil</u>
<u>1</u>	<u>13</u>	<u>Tan Clay & Gravel</u>
<u>13</u>	<u>42</u>	<u>Sand and Water</u>
<u>42</u>	<u>50</u>	<u>Gravel Sand & Water</u>
<u>50</u>	<u>50' 3"</u>	<u>Gravel & Water</u>

50' 3" Show exact depth of bottom

48520

2132

302637

I received and filed this instrument for
 record on the 14th day of May 1971
 at 11:40 o'clock P.M. permanent files
 of Missoula County, State of Montana
 Witness my hand
 Verance R. Cramer County Recorder
 By Christina A. Bennett Deputy
 Fee \$2.00 cash Paid

STATE WATER CONSERVATION BOARD

T. 13N R. 20W

File No. _____

JUL 21 1966

DUPLICATE

County Missoula 35

LOG

Billie _____ McDermott _____
Butcher _____ McNulty _____
Coyne _____ ADMINISTRATOR OF GROUNDWATER CODE
Daulton _____ Sullivan _____ OFFICE OF STATE ENGINEER

Top of Ground _____
(Elev. above sea level 3227')

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Freda E. Kallis &/or

Owner Otto Kallis Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 6/9/66 Date completed 6/10/66

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

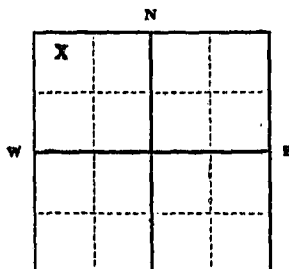
Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Formations Log:

- 0 - 4 Top soil.
- 4 - 12 Black sand & dirt.
- 12 - 26 Sand & gravel mixed in tan clay.
- 26 - 34 Fine sand & gravel. Water. Materials too fine to success fully develop well.
- 34 - 40 Fine sand & gravel. Water. Materials too fine.
- 40 - 46 Fine sand & gravel. Water. Materials too fine.
- 46 - 48 Clean coarse sand & gravel. Good water.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kid Size	From (Feet)	To (Feet)
6"	6 5/8" OD x 1/2"	-0-	48	N	O	N

Water rises in the well 7'6" from surface.



Static Water Level for non-flowing well 7.6' feet.

Shut-in Pressure for Flowing Well Non-F. Pumping Water Level 21 feet at 100 gal. per minute.

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

How Tested Air Lift Pump

Length of Test Three hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through open bottom of six inch casing. Wells with open bottom completions 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

NW 1/4 NW Sec 35, T13N R. 20W
Indicate location of well and place of use, if possible. Each small square represents 40 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).

Lots 108 - 107 - 1/4 of lot 106, Orchard Homes Number 6.

Show exact depth of bottom.

Bottom of hole 48'

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.

52
Driller's License Number
William F. Osborne
Driller's Signature

1426

252219

I received and filed this instrument for
 record on the 18 day of July, 1966
 at 10:30 o'clock A.M. permanent files
 of Missoula County, State of Montana
 Witness my hand:
Vermae R. Crouse, County Recorder
 By M. M. Conway, Deputy
 Fee \$ 2.00

be pumped at rates less than 25 to 50 percent of the tested capacity
 of the aquifer.

RECEIVED
 MISSOULA COUNTY RECORDER
 JUL 27 11 21 AM '66

GW 2 Doc. No. 305513
 Filed for record
 File No. this 23 day of July
 A. D. 1971, at 8:30
 DUPLICATE 9 o'clock A. M.

Approved Stock Form—State Publishing Co., Helena, Montana—4562
 T 13N R 20W
 County Missoula

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)

Owner Ernest L. & Ruth A. Kradolfer Address Missoula, Montana
 Driller Liberty Drilling Co. Address Missoula, Montana
 Date of Notice of appropriation of groundwater None filed
 Date well started 5/17/68 Date completed 5/22/68

Type of well Driven Equipment used Well Driving Rig
 (Dug, driven, bored or drilled) (Churn drill, rotary or other)

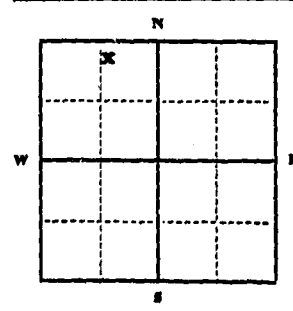
Water use: Domestic Municipal Stock Irrigation
 Industrial Drainage Other

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.

- Top of Ground Approx. (Elev. above sea level) 3210'
 Formations Log:
 0 - 3 Fill & black dirt with some gravel mixed in.
 3 - 19 Silty gravel & cobbles.
 19 - 30 Brown sand.
 30 - 39 Silty gravel & cobbles.
 39 - 45 Gray sand. Few gravels mixed in.
 45 - 59 Clean coarse sand & gravel. Water.
 59 - 63 Gravel & cobbles imbedded in tan clay.
 63 - 73 1/2 tan to gray clay.
 73 1/2 - 74 Rock.

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"	1'8"	64	1/4 x 3" slots	61	64

Water rises in the well 16'4" from surface.



Static Water Level for non-flowing well 16'4" feet.
 Shut-in Pressure for Flowing Well None
 Pumping Water Level 42 feet at 40 gal. per minute.

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

How Tested Air-Lift Pump
 Length of Test Four hours

Remarks: (Gravel packing, cementing, packers, typical shutoff) All water entering well is coming through perforations in six inch casing. 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 (Continue on reverse side) 40 to 40 percent of the tested capacity of aquifer.
 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).

N. 64 ft., Lot 7 S. 62 ft., Lot 6 Wohl Home Tracts Addition.

Show exact depth of bottom.
 Bottom of hole 74'

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.

52
 Driller's License Number
William F. Colvane
 Driller's Signature.

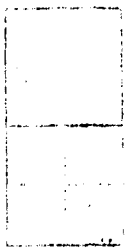
2810

2154

305513

I received and filed this instrument for
 record on the 23 day of July 1922
 at 1:32 o'clock *AM* at the
 of Missoula County, State of Montana
 Witness my hand
 Notary Public for Missoula County, Montana
 By *Dorothy A. Pinner*
 Fee 1.00 *ch.* Paid

10-10-22
 MISSOULA COUNTY RECORDER
 MISSOULA, MONTANA



Doc. No. 305512
 Filed for record
 File No. this 23 day of July
 A. D. 19 71, at MISSOULA
 DUPLICATE'clock A.M.
 LOG JUL 26 1971

Approved Stock Form—State Publishing Co., Helena, Montana—45642
 T. 13N R. 20W
 County Missoula

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)

Owner: Ernest L. & Ruth A. Kraloifer Address Missoula, Montana

Driller: Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater: None filed

Date well started: 5/9/68 Date completed: 5/22/68

Type of well: Driven Equipment used: Well Driving Rig
 (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.

Top of Ground Approx.
 (Elev. above sea level) 3210'

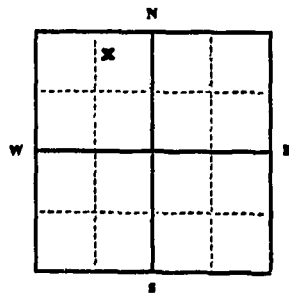
Formations Log:

- 0 - 2 Black dirt with some gravel mixed.
- 2 - 19 Silty gravel and cobbles.
- 19 - 28 Brown sand.
- 28 - 42 Silty gravel and cobbles.
- 42 - 46 Tan clay with few gravels imbedded.
- 46 - 48 Gray sand. Few gravels mixed in.
- 48 - 57 Clean coarse sand and gravel.
- 57 - 72 Tan and gray clay.
- 72 - 75 Rock.

Filed for record this 9 day of July, A. D. 19 71, at MISSOULA, Mont.
 Doc. No. _____

Water rises in the well 16'4" from surface.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	5 3/8" OD x 1/2"	0-	59'6"	1/2" x 3" slots	59'6"	59'6"



Static Water Level for non-flowing well 16'4" feet.
 Shut-in Pressure for Flowing Well None.
 Pumping Water Level 42 feet
 at 40 gal. per minute.
 Discharge in gal. per min. of flowing well None-flowing
 How Tested Air Lift Pump
 Length of Test Four hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through perforations in six inch casing. 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 30 to 40 percent of the tested capacity of aquifer.
 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.
 Bottom of hole 75'

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.

52
 Driller's License Number
William F. Osborne
 Driller's Signature.

48809

2153

305512

I received and filed this instrument for
record on the 23 day of July 1971
at 8:30 o'clock A.M. in the office
of Missoula County State of Montana
Witness my hand
Ernest R. Cline County Recorder
By *Walter A. Ramsey* Deputy
Fee \$... ..

Doc No

Doc No

File No. _____

T. 13^N R. 20^W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

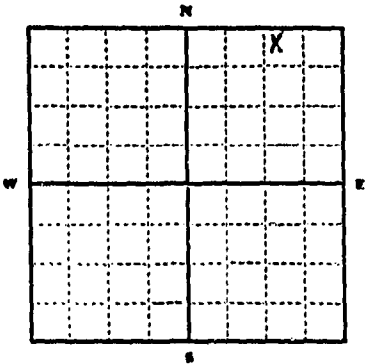
R
JAN 3 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Krell Tom R. (Name of Appropriator), of 4221 South Ave W. (Address) Missoula (Town)

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



NW 1/4 Sec. 35 T. 13 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 Household & IRRIGATION

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Sept 1943 TO Present

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
YARD & GARDEN
TOM KRELL

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal By P.M.F.
NW 1/4 Sec 35 T. 13 R. 20

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

8. The depth of water table 26'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 4" CASING, 76' DEEP

10. The estimated amount of groundwater withdrawn each year 120,000

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 _____

Signature of Owner Tom Krell
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.

20163

1043

2135-18

I received and filed this instrument for
record on the 31 day of Dec 1923
3:58 o'clock P. M., permanent files
of Missoula County, State of Montana
Witness my hand
MARTIN S. BLAIR, County Recorder
by Ethel G. Lane Deputy
Dec 31 1923

MISSOULA COUNTY RECORDER'S OFFICE
MISSOULA, MONTANA

35

File No. _____

T. 13^N R. 20^W _____

DUPLICATE

County _____

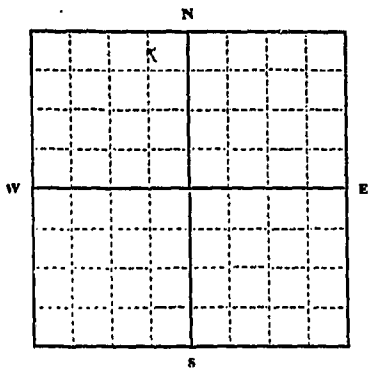
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963
STATE ENGINEER

Declaration of Vested Groundwater Right

(Under Chapter 237, Montana Session Laws, 1961)

1. John R. Kustad, of 4515-5th Ave W. 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:



NE 1/4 NW Sec. 35 T. 13 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 Household use and tree watering, home tree irrigation & truck garden irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Continuous from about 1924

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 24 gallons a 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 at present James J. Kustad irrigates about 1/2 acre garden produce, trees & lawn

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

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

8. The depth of water table. 96'

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. one 6" casing going down 96 feet with 1 horse centrifugal pump

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

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

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

Signature of Owner J. R. Kustad
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.

19919

690

215 096

I received and filed this instrument for
 record on the 20 day of Dec, 1967
 at 11:00 o'clock A.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 MARTIN S. BEHNER, County Recorder
 By [Signature] Deputy
 Fee \$ 00 Paid

MISSOULA COUNTY CLERK'S OFFICE
 MISSOULA, MONTANA

File No. _____

T 13 N R 20 W

DUPLICATE

County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 2 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. McLauley Mary of 4215 S. 1st street
(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:

W 1/2 NE 1/4 NE Sec 35 T. 13 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 field
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been... started 1920
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute)... do not know
- 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... small field 7 1/2 NE 1/4 NE 1/4 35-13-20
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal... N 1/2 NE 1/4 NE 1/4 35-13-20

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater... do not know
- 8. The depth of water table... do not know
- 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... do not know
- 10. The estimated amount of groundwater withdrawn each year... do not know
- 11. The log of formations encountered in the drilling of each well if available... do not know
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record... do not know

Signature of Owner Mary McLauley
Date Dec 31 1961

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.

889

215 362

I received and filed this instrument for
record on the 31 day of Dec 1963
10:22 o'clock A.M. permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. [Signature] County Recorder
[Signature] Deputy
Fee \$1.00 Paid

35

File No.

T. 13^N R. 20^W

DUPLICATE

County Missoula

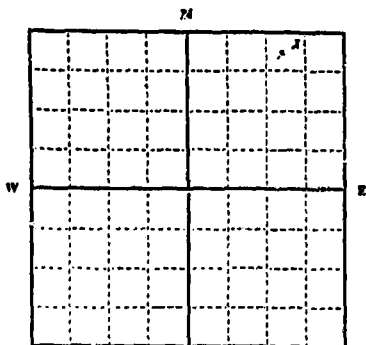
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 20 1963

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

1. Robert P. McCauley, of 4107 So. Ave. 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. 35 T. 13 N. R. 20 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 & STOCK WATER

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1910-1942 1st Well 2nd Well 1945

4. The amount of groundwater claimed (in miner's inches or gallons per minute) APP. 10,000 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 APP. 12 CRE. LAWN & GARDEN AROUND THE HOUSE ROBERT MCCAULEY

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 1st Well Hand Pump Center Front 2nd Well PRESSURE SYSTEM by House

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1st Well APP. 1910 2nd Well 1947

8. The depth of water table 1st 24' 2nd Well 85 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 1st Well 8" to 10" dia. driven 2nd Well 6" - 3" Well 2nd Well 4" Case 226 DR Well 85'

10. The estimated amount of groundwater withdrawn each year About 20,000 Gal

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 Book 3 P. 266 Line 9

Signature of Owner Robert P. McCauley
Date Dec 16, 1963

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

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

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

10925

162

24539

copy
I received and filed this instrument for
record on the *19* day of *Dec*, 19*57*
at *2:25* o'clock *P.*M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BENNER, County Recorder
By *Martin S. Benner*, Deputy
Fee \$ *2.50* Paid

File No. _____

T. 13^N R. 2^W

DUPLICATE

County _____

STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

RECEIVED
 JAN 3 1963

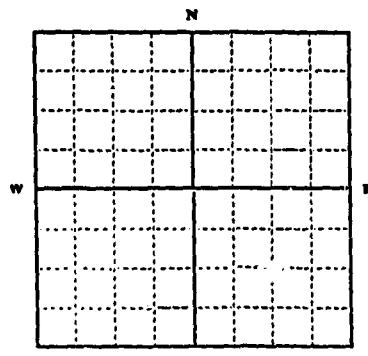
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Lawrence J. McDonald of 4201 South Ave - 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:



NE 1/4 Sec. 35 T. 13N 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 for drinking water & outside sprinkling
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Oct. 3 1899
continuous since then
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 g.p.m.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and names of the owner thereof
Two acres - The above location - L. J. McDonald owns
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Deep well pump located in base of residence
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater September 1946
8. The depth of water table 17' below grade
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6" casing 44' below grade
10. The estimated amount of groundwater withdrawn each year 30,000 gals.
11. The log of formations encountered in the drilling of each well if available A. W. Mowbray well driller - Missoula, Mont.
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 L. J. McDonald
 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.

1241

APR 31 1963

RECORDED AT 300
of Missoula County, State of Montana

Witness my hand and seal of said County Clerk
By W. J. [Signature] County Clerk
Fee \$ 2.00 Paid

County Missoula 35

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 Charles F. Huck
Address 2712 Glen Dr.
Missoula, MT
Date well started April 1, 1973
completed April 1, 1973

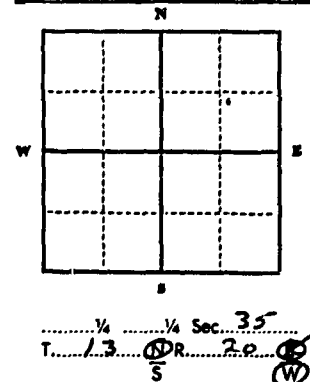
For Administrator's Use
File # 2504-333362
June 14, 1973
GW 1240 p.m.

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

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
6"	6 5/8" OD 19 lbs 6" Drive 500c	0	66'			



Static water level 30 ft.*
Pumping water level 51 ft.*
at 10 gallons per minute,
measured minutes after pumping
began.
*Measured from ground level.
Well developed by R.A.
for 1 1/2 hours.
Power Pump HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.
Driller's Signature C. D. Miller
Driller's Address Bill Center Box 58
Ha. Cornells Mont. LICENSE NO. 125

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	10	SAND GRAVEL
10	20	GRAVEL
20	40	SAND GRAVEL
40	55	SAND GRAVEL
55	60	HARD SANDY CLAY
60	70	GRAVEL & SAND

66' 10" Show exact depth of bottom

2504

33362

I received and filed this instrument for
 record on the 14 day of June 1923
 at 10 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 cash

INDEXED

JUN 14 1923
 JUN 14 1923
 JUN 14 1923
 JUN 14 1923

JUN 14 1923
 JUN 14 1923
 JUN 14 1923
 JUN 14 1923

JUN 14 1923
 JUN 14 1923
 JUN 14 1923
 JUN 14 1923

ADDENDUM

Form: Declaration of Vested Groundwater Rights
 Notice of Completion of Groundwater
Appropriation by Means of Well

Name of owner: Montana Lumber Sales Inc.

Corrected land description: 1/4 NE 1/4 NE
Sec. 35 T13N R20W

Initials: CS

File No.

T. 13N R. 20W 35

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1968

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. MONTANA LUMBER SALES INC. of 1701 Middlesex, 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:

			X	

2. The beneficial use on which the claim is based. House water, garden and land water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Prior to November, 1959. use has been continuous since

4. The amount of groundwater claimed (in miner's inches or gallons per minute). Not known

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. North 355' of the East 184.2' of Lot 99 of ORCHARD HOME COMPANY'S ADDITION NO. 6, a platted subdivision. Owner: Montana Lumber Sales Inc.

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

1/4 Sec. T. 13N R. 20W

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Approximate date of well completion is prior to November 1959

8. The depth of water table. Not known

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

10. The estimated amount of groundwater withdrawn each year. Not known

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

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

MONTANA LUMBER SALES INC.

Signature of Owner. By Donald P. Delaney

President
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.

20035

835 215-243

I received and filed this instrument for record on the 22nd day of Dec 1963 at 10 o'clock AM, permanent files of Missoula County, State of Montana
Witness my hand
Wm. J. Peters County Recorder
By Wm. J. Peters Deputy
Fee \$ 00 Paid



MISSOULA COUNTY, MONTANA
RECORDED AND FILED
DECEMBER 22 1963
W. J. PETERS
COUNTY RECORDER

35

File No. _____

T 13 R 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JUL 20 1964

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)
Well on South Ave



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

- 0 to 6' Pit
- 6' to 25' Sand & small gravel
- 25' to 45' Sand & water
- 45' to 57' Gravel & water
- 57' to 70' Clay
- 70' to 74' Gravel & water
- 74' to 85' Red rock

Owner Harlie Morrison Address 630 Dearborn

Driller Glenn Camp 705 Alder Address Missoula, Mont

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

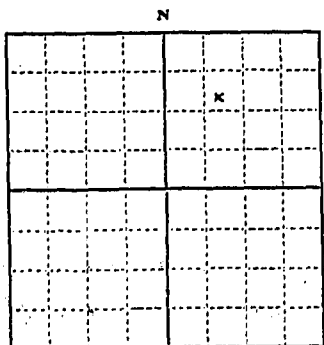
Date well started June 2, 1964 Date Completed June 5, 1964

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)
6"	6" I.D. 18.97 #	1' above floor	to 72'-10"	Mills	45	76
				knife	72'	75'
				Circles 8" apart		
				6 holes to circle		



1/4 Sec. 35 T. 13 R. 20
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 15' f feet.

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

Pumping Water Level 15 feet at 100 gal. per minute.

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

How Tested Compressor Length of Test 2 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).....

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.

38302

1425

223758

I received and filed this instrument for
 record on the 9 day of July 19 68
 at 11:30 o'clock A.M. in the public files
 of Missoula County, State of Montana
 Witness my hand:
 Verayne R. Croyce, County Recorder
 By Verayne R. Croyce, Deputy
 Fee \$ 07.00 Paid

MISSOULA COUNTY CLERK
 MISSOULA, MONTANA
 RECEIVED
 JUL 10 1968
 MISSOULA COUNTY CLERK
 MISSOULA, MONTANA

File No. _____

APR 7 1966

T. 13 N. R. 20 W

K
35

TRIPPLICATE

Billie _____ McDermott _____
Butcher _____ McNulty _____
Coyne _____ McInnis _____
Darlington _____ Sullivan _____
Dickert _____

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground
Approx.
(Elev. above sea level 3210')

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

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

June M. &/or

Owner Wayne E. Rusk Jr. Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 3/22/66 Date completed 3/24/66

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

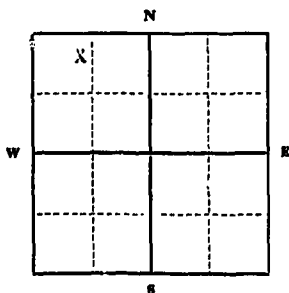
Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Formations Log:

- 0 - 5 Top soil.
- 5 - 26 Gravel imbedded in clay.
- 26 - 34 Very fine sand. Water
- 34 - 42 Brown sandy clay.
- 42 - 58 Fine sand with layers of clay.
- 58 - 78 Brown sand with layers of clay.
- 78 - 101 Brown clay.
- 101 - 103 Fine brown sand. Water but material too fine to successfully develop well.
- 103 - 105 Fine sand. Water but material too fine to successfully develop well.
- 105 - 108 Clean coarse sand and gravel. Water.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8 inch OD x 5 inch	+2	108	NONE		

Water rises in well to 20' from surface



Static Water Level for non-flowing well 20 feet.

Shut-in Pressure for Flowing Well Non-f
Pumping Water Level 60 feet
at 60 gal. per minute.

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

How Tested Air Lift Pump
Length of Test Six hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through open bottom of six inch casing.

NW 1/4 Sec 35 T. 13 N. R. 20 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).

Five Acres

Show exact depth of bottom.

Bottom of hole 108'

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

William F. Colvane
Driller's Signature

40954

1590

248 725

I received and filed this copy of the
 record on the 5th of April 1966
 at 4:30 o'clock P.M. at the Court
 of Missions Court, St. Louis, Missouri
 Witness my hand
 William H. [Signature] County Recorder
 By [Signature] Deputy
 Fee \$ [Signature] Paid

File No.

FEB 14 1967

T 13 R 20 35

DUPLICATE

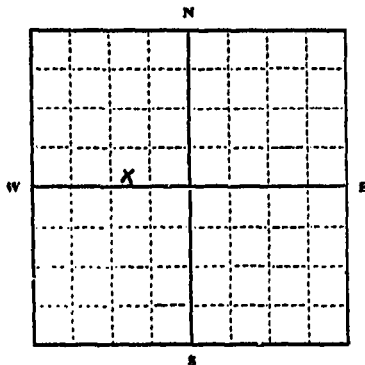
County Missoula

By: McDermott
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
County: Missoula
Division: OFFICE OF STATE ENGINEER
Dicker

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, Joseph A. Tabish, of Rte. #1 Target Range 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 NW Sec. 25 T. 13 R. 20

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

Lots 130, 131, 132 & 133
Orchard Homes Add. No 6

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... Original well completed 1928
Drilled in 1960
4. The amount of groundwater claimed (in miner's inches or gallons per minute)... unknown
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 of home located on lot 130
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... Had original hand dug well redrilled in 1960
8. The depth of water table... Well 49' deep
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater... 4" casings
10. The estimated amount of groundwater withdrawn each year... 750,000 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 available

Signature of Owner: J. A. Tabish

Date: Feb 8, 1967

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.

H1725

1682

257859

I received and filed this instrument for
record on the 2nd day of Feb. 1907
at 4:00 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
Vernon R. Cope, County Recorder
By *John J. [Signature]*, Deputy
Fee \$ 2.00 Paid cash

File No.

T. 13 N. R. 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 3 1963

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

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

- 0 - 6 Pit
- 6 - 17 Cobblestones, gravel and sand
- 17 - 41 Silty sand
- 41 - 43 Gravel imbedded in tan clay
- 43 - 54 Silty sand
- 54 - 57 Brown sandy clay
- 57 - 72 Tan silt
- 72 - 102 Tan clay
- 102 - 105 1/2 Sand and gravel.

Owner William J. Walker Address Missoula, Montana
4756 Sundown Road

Driller Liberty Drilling Co Address Missoula, Montana

Date of Notice of Appropriation of Groundwater None filed

Date well started 4/24/62 Date Completed 4/26/62

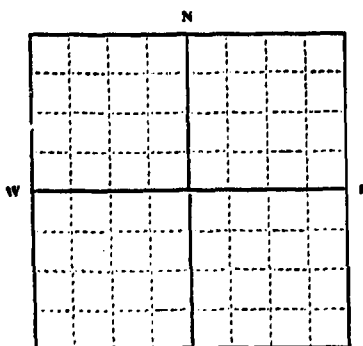
Type of well Drilled Equipment Used Cable Tools
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic Municipal Other Irrigation
Industrial Drainage Stock

Acquifer 102 to 105 1/2
Water raised to 18 ft.

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	From (Feet)	To (Feet)
6 in	7 in OD 24 # pr ft	5'	100'±"	no	perforations	



Lot 111 Sec. 35 T. 13 R. 20

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

Show exact depth of bottom.

Bottom of well 105'6"

Static Water Level for non-flowing Well 18 feet.

Shut-in Pressure for Flowing Well non-flowing

Pumping Water Level 38 feet at 80 gal. per minute.

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

How Tested air lift pump Length of Test 1 1/2 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)

52

Driller's License Number

William F. Osborne
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.

77/16

335

213400

Copy

I received and filed this instrument for record on the *26* day of *Nov* 19*68* at *10:20* o'clock *A.M.*, permanent files of Missoula County, State of Montana

Witness my hand:
MARTIN S. BEHNER, County Recorder

By *Martin S. Behner*
 Fee \$ *2.00* Paid

RECORDED

INDEXED

FILED

MISSOULA COUNTY, MONTANA

NOV 26 1968

Instrument filed for record with jurisdiction of the State of Montana and the County of Missoula, Montana, and the same is hereby certified to be a true and correct copy of the original as the same appears from the records of the County of Missoula, Montana.

Witness my hand and the seal of said County at Missoula, Montana, this 26th day of November, 1968.

Martin S. Behner
 County Recorder

1968 NOV 26 10 20 AM

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

DRILLER'S LOG

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

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.

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 Industrial Repair

Address Box 1501

Missoula, Montana 59801

Date well started 9/15/72

completed 9/26/72

Type of well Drilled

Equipment used Cable Tools

Water Use: Domestic Municipal Stock Irrigation

Industrial Drainage Other Garden/Lawn

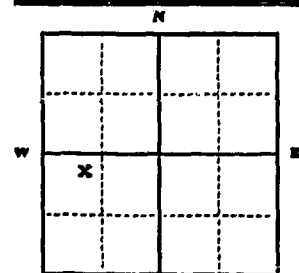
*Describe

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

ESTIMATED ANNUAL WITHDRAWAL 157,680,000 gallons

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	8 1/2" OD x .277	+2	85'6"	10'6" Water well screen	85'6"	96'

A blank tailpipe with solid closed bottom extends to 101 ft.



NW SW 1/4 Sec. 36
T. 20 N. R. 20 W.

Static water level 7'6" ft.*
Pumping water level 48" ft.*
at 300 gallons per minute,
measured 1 minutes after pumping began.

*Measured from ground level.
Well developed by Air Lift Pump
for 17 hours.

Power Gas Pump 30 HP

Remarks: (Gravel packing cementing packer type of shutoff) All water entering well through

slot openings in screen.
Wells in this area can
be depended upon to pro-
duct

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

Driller's Signature [Signature]

Driller's Address 2500 Reserve Street

Missoula, Montana LICENSE NO. 52

Top of Ground Approx. (Elev. above sea level) <u>3150'</u>		
From (Feet)	To (Feet)	
0	6	Gravel fill
6	52	Light brown silty sand with small gravels mixed in. Water Formations to fine & silty to successfully develop well
52	60	Sand and gravel conglomerate
60	62	Silty sand
62	71	Fine sand
71	81	Silty sand and gravel
81	84	Cemented sand & gravel with stringers of tan clay
84	97	Clean coarse sand & gravel, some fines mixed in. Water
97	101	Silty sand & gravel

101' Show exact depth of bottom water rises in well 7'6" from surface.

#2360

323844

I received and filed this instrument for
 record on the 24th day of Dec. 1922
 at 9:45 o'clock A. M. in the office
 of Missoula County, State of Montana
 Witness my hand
 Verney A. Cross, County Recorder
 By *[Signature]* Deputy
 Fee \$2.00 Paid

OK

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

File No. _____

T13N R. 20W

36

DUPLICATE

JAN 29 1971

County Missoula

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 Approx.
(Elev. above sea level 3210 ft.)

Formations Log:

- 0 - 66 Sand and gravel with cobblestones mixed in.
- 66 - 70 Sand and gravel conglomerate.
- 70 - 79 1/2 Fine sand.
- 79 1/2 - 93 Fine sand with some gravel mixed in.
- 93 - 116 Coarse sand and gravel with cobblestones mixed in.
- 116 - 123 Cemented sand, gravel and cobblestones.
- 123 - 125 Red rock with stringers of clay.

Owner M. E. S. Ready Mix Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 5/20/70 Date completed 6/16/70

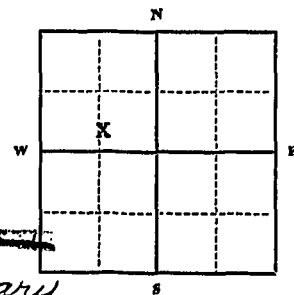
Type of well Drilled Equipment used Cable tools
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	8 5/8" OD by .277	0	95'6"	20 ft. Water well screen	94'6"	114'6"

A blank tailpipe with solid closed bottom extends to 125 ft.



Water rises in well 13'4" to surface.

Static Water Level for non-flowing well 13'4" feet.

Shut-in Pressure for Flowing Well Non-f Pumping Water Level 34 feet

at 150 gal. per minute.

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

How Tested Air Lift Pump

Length of Test 44 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through slots in screen.

Disc No. 298858
Filed for record this 22 day of January
A. D. 19 71 at 12:15 o'clock P. M.

NW 1/4 Sec. 36, T13N R. 20W
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

52

Driller's License Number

William F. Albane
Driller's Signature

49069

(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).

Approximately 3.478 acres

New Batch Plant for concrete

Show exact depth of bottom.

Bottom of well 125 ft.

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.

2078 298858

I received and filed this Instrument for record on the 22nd day of Jan 1971 at 2:15 o'clock P.M. Permanent files of Missoula County, State of Montana Witness my hand. Varanus R. Crouse, County Recorder By M. M. Crouse Deputy Fee \$2.00 paid

RECORDED IN THE OFFICE OF THE COUNTY CLERK MISSOULA MONTANA

INDEXED IN THE OFFICE OF THE COUNTY CLERK MISSOULA MONTANA

MISSOULA COUNTY RECORDS

GW

36

File No.

T. 13N R. 20W

TRIPPLICATE

County Missoula

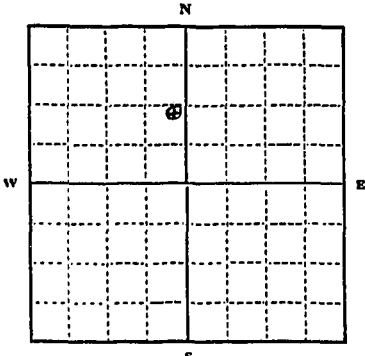
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 13 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Prestressed Concrete of Montana, Inc. of Box 1501 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:



2. The beneficial use on which the claim is based.....
Industrial

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....
September 1957
Continuous

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.....
Not applicable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....
3-Stage Jet Pump

SE 1/4 NW 36 T. 13N R. 20

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....
September 1957 to September 18, 1957

8. The depth of water table.....
70

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.....
95' - 6" Casing Driven

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

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

Signature of Owner [Signature]
Date December 11, 1963

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

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

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

8991

401

214 213

Copy
 I received and filed this instrument for
 record on the 17 day of Dec 1962
 at 1:06 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 MARTIN S. EHNEN, County Recorder
 By *Martin S. Ehnén* Deputy
 Fee \$2.00 Paid

RECEIVED

County Missoula 36

APR 10 1972

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA DEPARTMENT OF NATURAL RESOURCES

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 Target Range School
Address Target Range
Missoula, Montana 59801
Date well started March 11, 1972
completed March 13, 1972

For Administrator's Use
File # <u>2258, 314895</u>
<u>April 6, 1972 12:45 pm</u>
GW 1

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

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

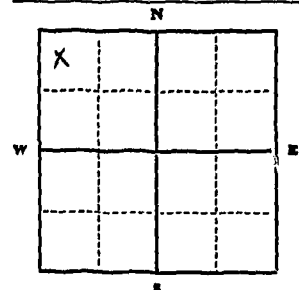
Water Use: Domestic Municipal Stock Irrigation
Industrial Drainage Other Garden/Lawn

*Describe School

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" I.D.	6" I.D. 17 lb per ft.	13" above g.l.	90'	none		



Static water level 21 ft.*
Pumping water level 36 ft.*
at 100 gallons per minute,
measured 1 minutes after pumping
began.
*Measured from ground level.
Well developed by compressor
for 2 hours.
Power Does Pump applies
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

N.W. 1/4 N.W. 1/4 Sec. 36
T. 13 N. R. 20 E.
S. W.

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

Driller's Signature [Signature]
Driller's Address 1522 S. 14th W., Missoula, Montana

Top of Ground (Elev. above sea level)		
From (Feet)	To (Feet)	
0	3	Black Topsoil
3	13	Top clay & Gravel
13	25	Sand & Gravel
25	27	Sand Gravel & Water
27	52	Sand and Clay
52	87	Sand Gravel & Water
87	90	Gravel & Water

LICENSE NO. 7

90' Show exact depth of bottom

50,160

* 2256

314895

received and filed this instrument for
 record on the day of 19.....
 at 12:45 o'clock P.M. permanent file
 of Missoula County, State of Montana
 Witness my hand
 Veramge R. Cross, County Recorder
 By Deputy
 Fee \$..... Paid

MISSOULA COUNTY
 CLERK OF DISTRICT COURT
 MISSOULA, MONTANA

1900

ADDENDUM

Form: Declaration of Vested Groundwater Rights

Notice of Completion of Groundwater Appropriation by Means of Well

Name of owner: Norman + Elizabeth Olsen

Corrected land description: _____
Sec. _____ T _____ R _____

Initials: CS

(Can't locate
Sec 24 or 25 lot 34, O.H. add #57)

File No. _____

T. 13 N. R. 20 W.

DUPLICATE

County. Missoula

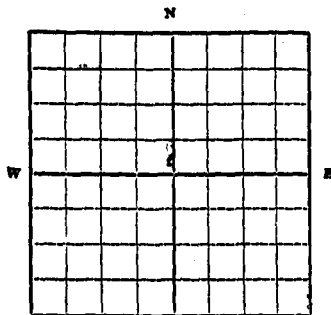
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 2 1964

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

1. Norman E. & Elizabeth M. H. Olsen of 115 Franklin St., 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:



Dinsmore's Orchard Homes Addn. #5
Lot 34.

1/4 Sec. T. 13N. 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 Drinking, livestock watering and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been September 1960
Used continuously

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof 1 1/2 acres irrigation - pasture and cultivation for owners listed above and located same as above, in Lot 34, also irrigation of Lot 35.

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 September 1960

8. The depth of water table 22 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 24 feet

10. The estimated amount of groundwater withdrawn each year Irrigation for 3-4 months
livestock watering year around.

11. The log of formations encountered in the drilling of each well if available 3 feet topsoil and balance gravel.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Not applicable

Norman E. Olsen

Signature of Owner Elizabeth M. H. Olsen

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.

98
0

215401

I received and filed this instrument for
recording this 21st day of Dec 1963
at 11:00 clock A.M., permanent files
of Missoula County, State of Montana
Witness my hand:
M. S. BEHNE, County Recorder
By *Mark S. Behne* Deputy
Fee \$ 2.00 Paid

1963

File No. _____

T. 13 N. R. 20 W.

DUPLICATE

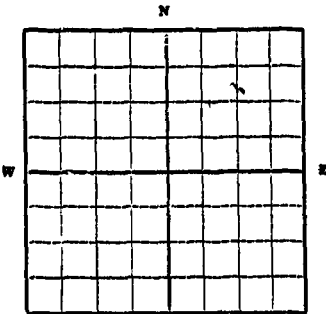
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

County Missoula
RECEIVED
JAN 2 1964

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

STATE ENGINEER

1. Norman E. & Elizabeth W.H. Olsen of 115 Franklin St., Missoula, Montana
(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:



Dinsmore's Orchard Home Addition #5
Lot 34 City of Missoula

1/4 Sec. T13N 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 Drinking, livestock watering and irrigation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1960 and used continuously.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 280 gals. per minute
450

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 4 acres irrigation - pasture and cultivation for owners listed above, and located at same as above, in Lot 34. Also irrigation of 5 acres Lot 34.

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 July 1960

8. The depth of water table 20 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 22 feet

10. The estimated amount of groundwater withdrawn each year Irrigation for 4 months and livestock watering and drinking water balance of year.

11. The log of formations encountered in the drilling of each well if available 2 feet topsoil and balance
Gravel

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. Not applicable.

Norman E. Olsen

Signature of Owner. Elizabeth Helena N. Olsen

Date December 20, 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.

909 215402

I received and filed this instrument for
record on the 21st day of Dec 1913
at 11:23 o'clock P. M., permanent files
of Missoula County, State of Montana
Witness my hand.
M. S. BIRNBY, County Recorder
By *M. S. Birnby* Deputy
Fee \$ 2.00 Paid

ADDENDUM

Form: Declaration of Vested Groundwater Rights
 Notice of Completion of Groundwater Appropriation by Means of Well

Name of owner: Vaughn & Ruby Peterson

Corrected land description:
Sec. T R

Initials: MS

Sec 24 or 25 (Unable to locate)

File No.

T. 13N R. 20W

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

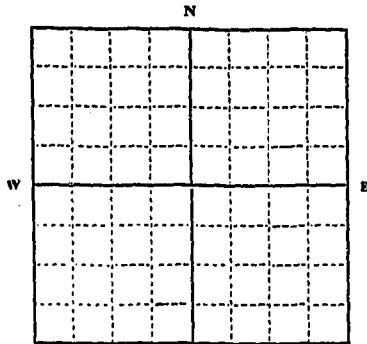
RECEIVED
JAN 3 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Vaughn C Peterson & Ruby Peterson, of Butte Missoula, Mont.
(Name of Appropriator) (Address) (Town)

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



DIMS DEP. HD, # 5 50 72
..... 1/4 Sec. T. 13N 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. House
irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1920

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 1 inch per acre 5 small

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 GARDEN & PASTURE

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1920

8. The depth of water table. 10-20 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 40 ft deep 6 in wide

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

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

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

Ruby Peterson
Signature of Owner Vaughn C Peterson

Date Dec 27 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.

678

215073

copy
 I received and filed this instrument for
 record on the 31 day of Dec 1968
 at 8:17 o'clock A.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 MARTIN S. BEHNER, County Recorder
 By Wally D. [Signature] Deputy
 Fee \$ 1.00 Paid

MISSOULA COUNTY, MONTANA
 COUNTY CLERK
 MISSOULA, MONTANA

GROUNDWATER INDEX

MISSOULA COUNTY

TWP. 13N

RGE. 19W

<u>SEC.</u>	<u>NAME OF APPROPRIATOR</u>	<u>FORM</u>	<u>CO. FILE #</u>
1	BARR, JAMES W.	GW4	214591
1	BRISSEY, FORREST L	GW4	215415
1	DELP, GUY B & THEADORA E	GW4	215020
1	WAGNER, L D	GW4	214778
2	BALLARD, WM R. & LEE M	GW4	214150
2	BILDERBACK, DAVID E	GW2	333846
2	COX, WALTER B & EVELYN S	GW4	208802
2	COX, WALTER B & EVELYN S	GW4	208801
2	EVANS, A DON	GW2	214592
2	EVERINGHAM, B S	GW2	212064
2	FANSLow, CLAY	GW2	229746
2	GRIMES, LYLE R & GAIL E	GW4	213898
2	GOULD, PAUL E	GW4	214403
2	HALL, RICHARD & NANCY	GW2	328447
2	JANES, LAWRENCE V	GW4	216206
2	JOHNSTON, DR R. J.	GW2	314395
2	MCDONALD, GLEN T	GW2	272126
2	MUELLER, MARGUERITE B	GW4	215233
2	RISSMANN, GAYLORD L	GW2	228264
2	WAILES, JOHN A	GW2	223234
2	WALTER, CHARLES L	GW4	214003
2	WANKE, HERBERT	GW2	197932
3	GEESEY, GEORE A & PHYLLIS FERN	GW4	214528
4	CARLSON, CARL W & JOHN W	GW4	215194
5	PHILLIPS, CLIFFORD W & KATHRYN E	LOG	183930
5	PHILLIPS, CLIFFORD W & KATHRYN E	GW2	334328
5	PHILLIPS, CLIFFORD W & KATHRYN E	GW2	334327
5	RYAN, DOROTHY E & FRANCIS L	GW2	253462
5	WHEELER, WM J & BLANCHE V	GW1	334085
6	M & S CONSTRUCTION	GW2	321120

GROUNDWATER INDEX

MISSOULA COUNTY

TWP. 13N

RGE. 19W

<u>SEC.</u>	<u>NAME OF APPROPRIATOR</u>	<u>FORM</u>	<u>CO. FILE #</u>
6	SCHOOL DIST # 4 MSLA CO	GW1	334291
6	WHEELER, WM J & BLANCHE V	GW2	333014
6	WHEELER, WM J & BLANCHE V	GW2	334086
6	WHEELER, WM J & BLANCHE V	GW2	274029
7	BUD LAKE TRUCK & CAR STOP INC	GW4	214895
7	BUD LAKE TRUCK & CAR STOP INC	GW4	214897
7	DONALDSON, EUGENE	GW2	282775
7	D'ORAZI, ALBERT J & ROSEMARY	GW4	209666
7	DOUGHERTY, JACK P	GW2	283493
7	EL-MAR TRAILER VILLAGE	GW2	313653
7	EL-MAR TRAILER VILLAGE	GW2	313654
7	EL-MAR TRAILER VILLAGE	LOG	186851
7	EL-MAR TRAILER VILLAGE	GW2	260398
7	GERRITY, TOM	GW4	1316
7	GERRITY, THOMAS	GW2	256086
7	KINNEY, MATTIE M	GW4	214969
7	KNOBLE, FRANK	GW1	300154
7	KNOBLE, FRANK & AUDREY	GW2	253710
7	LAKE, HAROLD & MARY	GW4	214896
7	PATTERSON SHEEP CO	GW4	214389
7	SAMMONS TRUCKING	GW2	327396
7	SCHRAM, JOHN W	GW4	215680
7	STATE OF MONTANA HIGHWAY DEPT	GW2	312429
7	UNION CONSTRUCTION CO	LOG	147397
8	AMERICAN CRYSTAL SUGAR CO	GW2	201886
8	BORDEN CHEMICAL CO	GW2	292428
8	EVANS PRODUCTS	GW2	299644
8	EVANS PRODUCTS	GW2	299645
8	EVANS PRODUCTS	GW1	285859
8	EVANS PRODUCTS	GW1	NONE

GROUNDWATER INDEX

MISSOULA COUNTY

TWP. 13N

RGE. 19W

<u>SEC.</u>	<u>NAME OF APPROPRIATOR</u>	<u>FORM</u>	<u>CO. FILE #</u>
8	FELTON, JEAN L & JOHN	GW2	261125
8	JOHNSON, M E	GW2	317373
8	MATELICH TRAILER SALES & SERVICE	GW2	215508
8	MISSOULA COUNTY SHOP	GW2	331597
8	NICHOLSON PAVING	GW2	304024
8	NORTHER PACIFIC RAILWAY CO	GW4	213195
8	OSTERGRIN AND SON	GW4	202488
8	RASER, HOWARD	GW2	308704
8	RASER, HOWARD	GW2	329116
8	VAN-EVANS CO	LOG	170752
8	VAN-EVANS CO	GW4	1109
8	VAN-EVANS CO	LOG	174323
9	CARLSON, JOHN W	GW4	215195
9	RANDOLPH, WM	GW3	215150
9	VAN-EVANS CO	LOG	170752
9	VAN-EVANS CO	GW2	285850
9	SHAFFNER, W F	GW2	204836
10	RANDOLPH, WM H JR.	GW4	215153
11	MATHEWS, HOMER	GW2	211714
11	MATHEW, H R	GW2	1174
11	MONTANA POWER	GW2	311453
11	CUMMINS, EMMA K	GW4	215112
11	DAHLSTROM, J NEIL	GW4	215157
11	DALEY, HOWARD W	LOG	179705
11	DRADER, WM H	GW4	213779
11	FERGUSON, JEWELL & ARVIN D	GW4	215423
11	KLAPWYK, A J	GW3	208278
11	KLAPWYK, A J	GW4	208276
11	NELSON, RAY E	GW4	215395
11	RATTLESNAKE MISSION CHURCH	GW2	257432

GROUNDWATER INDEX

MISSCULA COUNTY

TWP. 13N

RGE. 19W

<u>SEC.</u>	<u>NAME OF APPROPRIATOR</u>	<u>FORM</u>	<u>CO. FILE #</u>
12	KLAPWYK, A J	GW3	208277
12	MONTANA POWER	GW2	258791
12	REEVES, BURLEY H & DORRIS F	GW4	215192
12	RINKE, ELVA H & ROBERT C	GW2	256733
13	BARRETT, C C	GW2	215552
13	DESCHAMPS, ROBERT JR	GW2	208478
13	DESCHAMPS, ROBERT JR	GW3	214874
13	DESCHAMPS, ROBERT L III	GW3	283552
13	DESCHAMPS, ROBERT JR	GW4	214737
13	DESCHAMPS, ROBERT JR	GW4	214736
13	DESCHAMPS, ROBERT JR	GW4	214735
13	HENDRICKS, WM M	GW4	1284
13	HOY, ROBERT D	GW2	313166
13	HOY, ROBERT D	GW2	313165
13	JOHNSON, M E	GW2	253173
13	KLAPWYK, A J	GW3	208275
13	MARTINSEN, A E	GW4	215162
13	SHANNON, CARROL A	GW2	306714
14	BAKER, ELDON	GW2	315361
14	BINGHAM, RAY	GW4	215524
14	BUEYOR, JOSEPH H	GW4	215506
14	DONTIGNY, EVELYN & ALPHOUSE	GW4	1303
14	DRATZ, JOHN P & BETTY L	GW4	213959
14	GIBBS, REY H & NILA D	GW4	215369
14	HARBINE, MICHAEL J	GW1	331835
14	HENDRIEKSON BROS	LOG	170289
14	JACHMAN, ROSCOE & EDETTA	GW2	308365
14	JACHMAN, ROSCOE & EDETTA	GW4	214443
14	LEAPHART, CHARLES W	GW4	214290
14	LEAPHART, C W	GW2	333942

GROUNDWATER INDEX

MISSOULA COUNTY

TWP. 13N

RGE. 19W

<u>SEC.</u>	<u>NAME OF APPROPRIATOR</u>	<u>FORM</u>	<u>CO. FILE #</u>
14	MARKISS, EARLE J	LOG	186818
14	PATTEN, O M & BERTHA B	GW2	294539
14	MURRAY, HENRY T	GW4	1321
14	MURRAY, HENRY T	GW4	288289
14	MONTANA POWER CO	GW1	223909
14	MONTANA POWER CO	GW2	227011
14	MOONEY, GUY	GW4	222707
14	PINEVIEW PARK DEVELOPMENT	GW2	303003
14	PREZEAU, RODERICK & JOAN	GW4	1330
14	SCHREIBER, RUSSEL G	GW4	215056
14	STOCKNER, MAURICEF & PHYLISS C	GW4	213629
14	VANMETER, WAYNE P	GW4	215930
14	WANNER, KENNEDY A	GW4	1117
14	WILKINSON, RONALD L	GW4	216501
14	ZUELKE, C F & MARY O	GW4	215570
15	CHASE, DAVID W	GW4	207797
15	MONTANA POWER CO	GW4	192062
15	RANDOLPH, WM H	GW4	215152
15	TRAYNOR, P J	GW4	212329
16	HORTON, HOWARD N	GW2	325054
16	MISSOULA, CITY OF	GW2	279346
16	MISSOULA WHITE PINE SASH CO	GW2	225008
16	MISSOULA WHITE PINE SASH CO	GW4	214774
16	MISSOULA WHITE PINE SASH CO	GW2	271668
16	MONTANA POWER CO	GW1	281182
16	MONTANA POWER CO	GW2	281181
17	COFFEE'S MISSOULA DRUG CO	GW2	232426
17	COMMERCIAL LEASING	GW2	252455
17	DAILY, JOHN R INC	GW2	265306
17	DON'S MARKET	GW2	267545

GROUNDWATER INDEX

MISSOULA COUNTY

TWP. 13N

RGE. 19W

<u>SEC.</u>	<u>NAME OF APPROPRIATOR</u>	<u>FORM</u>	<u>CO. FILE #</u>
17	IRAEI, LARRY K. & CAROL J.	GW2	279420
17	MCCLAY, DAVID J.	GW4	1212
17	MOUTH, RUTH L. & FLOYD	GW2	302005
17	MOHALAND, MARY	GW2	231269
17	MISSOULA MOTEL	GW4	214451
17	PACIFIC HIDE & FUR	GW2	301150
17	REELY, LAGRETA L.	GW2	252459
17	REELY, LAGRETA L.	GW2	252456
17	SAULTER, VERNON	GW4	215167
17	SORENSEN, GORDON E. & MARILYS R.	GW2	334243
17	STEINBRENNER, GEORGE F.	GW2	233296
17	VETERANS OF FOREIGN WARS	GW4	215347
17	WOLF, MARCUS	GW2	194133
17	WRIGHT LUMBER CO	GW4	214782
18	CLOUSE, HARVEY F.	GW4	215318
18	CLOUSE, HARVEY F.	GW3	215317
18	COURTNEY, ED	GW2	266877
18	FLYNN, G. ELMER & MARY A.	GW4	1256
18	HENDRICKS, WILLIAM N.	GW3	215466
18	MARCEAU, ROY	GW2	225233
18	MCCULLOUGH, KENNETH M. & HELEN K.	GW4	213798
18	MISSOULA, CITY OF	GW2	215102
18	MISSOULA COUNTY HUMANE SOCIETY	GW2	237841
18	ROBERTS, JOHN E.	GW2	306485
18	STOCKNER, MAURICE F. & PHYLLIS C.	GW4	213626
18	STOCKNER, MAURICE F. & PHYLLIS C.	GW4	213628
18	VANDEBERG, CYRIL L.	LOG	180549
19	ADAM, W. L.	LOG	150737
19	ADAM, W. L.	GW4	1172
19	AUDRETT, EDMUND	GW4	216011

GROUNDWATER INDEX

MISSOULA COUNTY

TWP. 13N

RGE. 19W

<u>SEC.</u>	<u>NAME OF APPROPRIATOR</u>	<u>FORM</u>	<u>CO. FILE #</u>
19	BAKKE, ROBERT A	GW2	243645
19	BARNETT, DONALD R.	GW4	1311
19	BARNETT, GRACE T.	GW4	215344
19	BARNETT, GRACE T.	GW4	215343
19	BARNETT, GRACE T.	GW4	215342
19	BERARD, WALTER R. & MARLENE	GW4	1244
19	BLAKNEY, LARRY D.	GW4	215419
19	BREHM, ELMER & DORIS	GW4	215306
19	BUNK, ADOLPH & JULIA	GW4	208936
19	BURRESON, MARVIN D.	GW4	1115
19	BUSH, G	LOG	184475
19	CAMPBELL, OPIE H. & LULU F.	GW4	215388
19	CARAS, JAMES S.	GW4	215449
19	CARAS, JAMES S.	GW4	215480
19	CARAS, JAMES S.	GW4	214577
19	CARAS, JAMES S.	GW4	215478
19	CAVIN, RAY G. & LUCILLE	GW4	215352
19	CLEMONS, HENRY P. & CHARLOTTE	GW4	215339
19	COATS, JOHN H. & ROBERTA C.	GW4	215538
19	COLVILL, LOUIS A. & FRANCIS	GW4	215289
19	COLVILL, LOUIS A.	GW4	214288
19	COLVILL, H. C. B. ESTATE OF	GW4	214281
19	CRIFE, RALPH E. & FRANCIS L.	GW4	214541
19	DANIEL, JAMES D. & JACQUELINE C.	GW4	1187
19	DAY, EARL E. & KATHRINE N.	GW4	1242
19	DOWNING, SETH E. & ALMA R.	GW4	210844
19	DUNTUN, RICHARD A. & CLARA	GW4	213791
19	DUNTUN, RICHARD A. & CLARA	GW4	213790
19	ETHERIDGE, FANNIE	GW2	200174
19	FAUSETT, DONALD A.	GW4	215417

GROUNDWATER INDEX

MISSOULA COUNTY

TWP. 13N

RGE. 19W

<u>SEC.</u>	<u>NAME OF APPROPRIATOR</u>	<u>FORM</u>	<u>CO. FILE #</u>
19	FOLSOM, LOUIS L. JR	GW4	214851
19	GARDEN CITY FLORAL CO	GW4	215482
19	GARDEN CITY FLORAL CO	GW4	215481
19	GAGEMEIER, LOUIS SR	GW4	214931
19	GAGEMEIER, LOUIS & BARBARA	GW4	214932
19	GJEFLE, RALPH L.	GW4	215346
19	GLEESON, LEE D.	GW4	215206
19	GUSTAFSON, TED & RUTH	GW4	215018
19	GUTHRIE, VINTON L.	GW2	243825
19	HART	LOG	162637
19	HART, R. B. & ANNA	GW4	215220
19	HEAPHY, M.W.	LOG	154002
19	HEAPHY, MATHEW W. JR	GW4	214514
19	HEINLY, ALBERT	GW2	211388
19	HENDRICKSON, JOHN H. & DENISE H.	GW2	274140
19	HEPPLER, MACK G.	GW4	214933
19	HOLLORON, WESLEY & DONNA	GW4	215196
19	HOUTCHENS, LAURENCE A. & KATHERINE	GW4	214983
19	HOWEY, JESSE Q.	GW4	214748
19	JENNINGS, MARK & MARJORIE	GW4	1146
19	KOLENDICH, MATT	GW4	215354
19	KOLENDICH, FRANK	GW4	215355
19	LACHMAN, RANDAL H.	GW4	1178
19	LECHNER, N. C.	GW4	207600
19	LODGE, JAMES O.	GW4	215577
19	LONGPRE, WILLIAM	GW2	322342
19	LONGPRE, WILLIAM	GW2	322341
19	LONGPRE, WILLIAM G.	GW2	207696
19	LONGPRE, WILLIAM G. & LENA	GW2	207695
19	LONGPRE, WILLIAM G. & LENA	GW4	307694

GROUNDWATER INDEX

MISSOULA COUNTY

TWP. 13N

RGE. 19W

<u>SEC.</u>	<u>NAME OF APPROPRIATOR</u>	<u>FORM</u>	<u>CO. FILE #</u>
19	LOCKWOOD, FRANK A. & MILDRED	GW4	215433
19	MACIVOR, DONALD S.	GW4	210654
19	MCAFFEE, LAWRENCE M. & PEARL A.	GW4	215438
19	MCCART, IRA L.	GW4	215436
19	MILLER, FRANCIS J.	GW4	215176
19	MINSTER, FRED	GW4	215514
19	MITCHELL, RICHARD	GW2	206924
19	NASS, GEORGE & AELINE M.	GW2	246439
19	NORD, GEORGE	LOG	153181
19	ORCHARD HOMES COUNTRY LIFE CLUB	GW4	214540
19	OTT, CHARLES	GW2	215123
19	PARMELEE, JAMES T.	GW4	215184
19	PETERSON, ELIZA C.	GW2	274291
19	PETERSON, FLIZA C.	GW2	274290
19	RALSTIN, D. W.	GW2	302464
19	RIDLEY, HAROLD L.	GW4	252993
19	RICHARDSON, DONALD L. & BERGITH L.	GW4	214259
19	ROSS, MARVIN D.	GW4	215448
19	SCHOOL DISTRICT NO. 1	GW4	214506
19	SCOTT, DONALD V	GW1	215426
19	SEILERT, JOHN B.	GW4	1100
19	SHANNON, FLORENCE I.	GW4	209460
19	STELLING, GEORGE, HERMINA & ART	GW2	214464
19	TAYER, LLOYD & DORIS	GW4	215154
19	TAYLOR, JOHN B. & CATHERINE H.	GW4	214511
19	THOMSON, JAMES P. & VIOLET M.	GW4	215079
19	TRIPP, ERAY	GW4	1121
19	TRIPP, ROLAND & CATHERINE	GW2	291749
19	TRIPP, ROLAND & CATHERINE	GW2	291748
19	WAGNER, ALICE	GW4	215325

GROUNDWATER INDEX

MISSOULA COUNTY

TWP. 13N

RGE. 19W

<u>SEC.</u>	<u>NAME OF APPROPRIATOR</u>	<u>FORM</u>	<u>CO. FILE #</u>
19	WALTER, CHARLES H. & BERTHA L.	GW4	1217
19	WARD, BOB & SON	LOG	153180
19	WARD, IRVINE C. & MARIAN L.	GW4	215559
19	WARD, IRVINE C.	GW2	215557
19	WARD, RUSSELL W. & PHYLLIS	GW4	215558
19	WARTHEN, ROBERT L.	GW2	226239
19	WEATHERBEE, P. F.	GW2	205842
19	WETZEL, WINSTON W.	GW4	215507
19	WILL-O-DELL SANITARIUM	GW2	191470
19	YONCE, JOHN B. JR & FREDALINE M.	GW2	316997
20	AJOLA, LOUISE	GW2	215553
20	ANGLE, CHESLEY S.	GW2	246491
20	BAUER, MICHAEL K. & AGNES	GW4	1210
20	BENSON, OTTO F.	GW4	214739
20	BENSON, OLIVIA I.	GW4	214740
20	BENSON, RUTH B.	GW4	188714
20	BENSON, RUTH B.	GW4	188716
20	BLAZOVICH, MATT	GW2	226000
20	BOOTH, C. ALDONA M. & WOODROW B.	GW2	309846
20	BOURKE, MARCUS J.	GW2	252988
20	BUKOVATZ, GEORGE A. & ANNIE	GW4	1144
20	BURLINGAME, WILLIAM K. & JEAN	GW4	214875
20	BUSH, JOSEPH R. & BARBARA J.	GW4	215122
20	CHAUDOIN, FRED & ELLA	GW4	214868
20	CHAUSSEE, ANNIE	GW4	1154
20	CHAUSSEE, ANNIE	GW1	1279
20	CONNICK, DONALD T. & SHIRLEY M.	GW4	215118
20	DEVORSS, MARGARET M. & KENNETH A.	GW4	215455
20	DODGSON, GILBERT	GW4	215327
20	DODGSON, GILBERT	GW4	215328