

396879

CLARENCE PURSLEY

TO

THE PUBLIC

COMPLETION OF GROUNDWATER  
WITHOUT WELL

STATE OF MONTANA,  
COUNTY OF HILL

*Clarence Pursley*  
*County Clerk*

COUNTY CLERK

SECRET

FEE: \$2.00 pd.

21

File No. ....

T. 37R. 17E.

DUPLICATE

County Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 13 1964

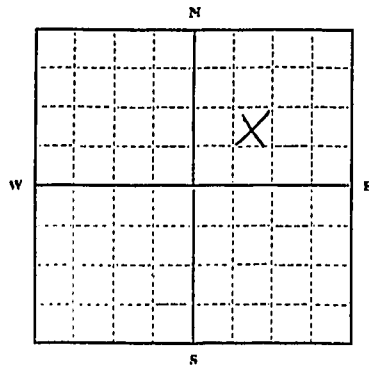
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Clarence L. Purley, of Kremlo, Montana  
(Name of Appropriator) (Address) (Town)

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



S.W. 1/4 NE Sec 21, T. 37R. 17

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... stock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1963 - not used continuously

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 12 gal per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
None

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

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... 10'

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... 16' depth - 40" x 40"

10. The estimated amount of groundwater withdrawn each year... 255,500 gallons

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.

Signature of Owner... Clarence Purley

Date... 12-19-63

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.

30977

396881

CLARENCE G. PURSLEY

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

COUNTY OF HILL  
Filed at 11 o'clock a.m.

ON DE 22 1963

COUNTY CLERK

VERITY

FEE: \$2.00 pd.



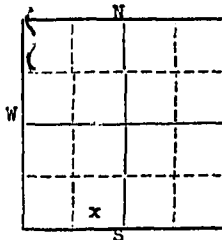
RECEIVED

T. 36 N R 8 E 3

County Hill

STATE ENGINEER ERNEST O. LEE, DRILLING  
1200 3RD STREET HAVRE

WATER WELL LOG



Owner Carl Ramberg Address Inverness, Montana

Driller Herbert Freier Address 281 N. State St., Havre

Date Started August 31, 1961 Date Completed September 4, 1961

Location: Sec. W 1/2-2 T. 36 R. 8 1/4 sec. SW 1/4 of 2

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

Water use: Domestic [ ] Municipal [ ] Stock [X] Irrigation [ ]  
Industrial [ ] Drainage [ ] Other: [ ]

Casing: 0 ft. to 175 ft. Type Spang-seamless Size 7" OD

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 118 to ft. 134 Ft. 165 to ft. 175

Type of screen or perforations 1/4" X 5" Perforations

Static Water level, for non-flowing well: 90 feet.

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

Pumping water level: 170 feet at 7 gal. per min.

How tested: Baler

Length of test: 2 hours

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

Gravel packed around casing to 75' from ground level with 1/2" screened gravel.

(over)

Carl J. Ramberg

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	58	Sandy Brown Clay
58	63	Dark Brown Shale--Trace of Coal
63	65	Blue-Grey Shale
65	70	Sandy Light Brown Shale
70	74	Sandy Grey Shale
74	80	Blue-Grey Shale
80	88	Sandy Grey Shale
88	94	Light Brown Shale
94	97	Dark Brown Shale--Trace of Coal
97	111	Blue-Grey Shale
111	118	Sandy Grey Shale
118	124	Grey Sandstone--Water--Approx. 3 gal. per min.
124	125	Hard Grey Shell
125	134	Grey Sandstone--Water--Approx. 2 gal. per min.
134	160	Sandy Grey Shale
160	161	Hard Grey Shell
161	166	Sandy Grey Shale
166	175	Grey Sandstone--Water--2 gal. per min.

DOCUMENT NO. 385516

CARL RAMBERG  
TO  
THE PUBLIC

WATER WELL LOG

STATE OF MONTANA, ) ss.  
COUNTY OF HILL )  
Filed at 2:00 o'clock P. M.  
ON OCT 2 1961  
C. C. YEOP  
COUNTY CLERK  
DEPUTY

70	74	Sandy Grey Shale
74	80	Blue-Grey Shale
80	88	Sandy Grey Shale
88	94	Light Brown Shale
94	97	Dark Brown Shale--Trace of Coal
97	111	Blue-Grey Shale
111	118	Sandy Grey Shale
118	124	Grey Sandstone--Water--Approx. 3 gal. per min.
124	125	Hard Grey Shell
125	134	Grey Sandstone--Water--Approx. 2 gal. per min.
134	160	Sandy Grey Shale
160	161	Hard Grey Shell

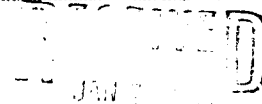
File No. ....

T. 26 N. R. 9 E.

DUPLICATE

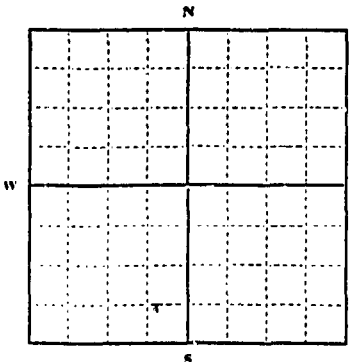
County .....

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER



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

1. Carl Ramberg, of Inverness Mont.  
(Name of Appropriator) (Address) (Town)  
County of Shell State of Mont.  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 2 T. 36. R. 8

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 and cattle

3. Date or approximate date of earliest beneficial use; and how continuous the use has been for steady use the year around 1931

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 12 gal per min.

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1931

8. The depth of water table 13 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 Steel casing 4 1/2" 22 ft Deep

10. The estimated amount of groundwater withdrawn each year 146,000

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 Carl J. Ramberg  
Date 12-27-63

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.

26582



396861.

CARL RAMBERG

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MICHIGAN  
DEPARTMENT OF  
NATURAL RESOURCES

*T. E. Blain*  
REGISTERED PROFESSIONAL ENGINEER  
No. 12345

FEE: \$2.00 pd.

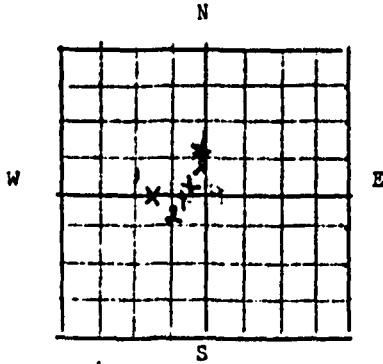
GW-  
FILE NO. \_\_\_\_\_

TWP 36 N RGE 8 E  
COUNTY Stillwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

1. Clive Owens, of Lawrence  
(Name of Appropriator) (Address) (Town)  
County of Butte State of Mont  
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



20 W 1/2 SW 1/4 Sec 1 T 36 R 8 E

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

1st row hill land to garden

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

Well 1 1972 Well 2 1956 Well 3 1958

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

1. 1 1/2 gal per min 2. 2 gal per min 3. 3 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

3.35 ac. to row garden owner

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

Like pumps

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

Well 1 June 1942 Well 2 1956 Well 3 April 1958

8. The depth of water table

1. 16 ft 2. 130 ft 3. 30 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

Well 1 2 ft Well 2 10 ft Well 3 30 ft

10. The estimated amount of groundwater withdrawn each year

365,000 gal

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

None

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 Clive Owens

Date Dec 30 1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

396969

Handwritten notes or signatures, possibly including a date like 1/25/58.

Handwritten text at the bottom, possibly a date or reference number.

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

T 36N R 8E

DUPLICATE

County Bill

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)

Owner Lloyd E. Holey Address Joplin, Montana

Driller Hi-Line Drilling Service Address Hayes, Montana

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

Date well started November 30, 1970 Date completed December 15, 1970

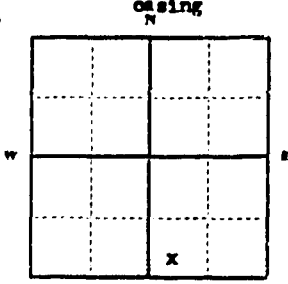
Type of well Drilled Equipment used Cable tool rig  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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.

- 0 Top of Ground
- 0 (Elev. above sea level \_\_\_\_\_)
- 2 Soil
- 10 Sandy brown clay
- 11 Boulder
- 13 Brownish-grey clay
- 15 Brown shale & coal
- 19 Brown shale-embedded ivory shell
- 21 Dark brown shale-water approx. 1 GPM-Hardness, 51 grains per gallon; Iron-8.0 PPM.; sulfate, moderate.
- 25 Brown shale
- 25 1/2 Brown shale-coal-water approx. 1 GPM Lt. brown shale
- 29 Lt. brown shale
- 30 Dark brown shale-coal water-approx. 1 1/2 GPM Lt. brown shale (sandy)
- 32
- 36 Shaley grey sandstone-water approx. 2 1/2 GPM. Sandy lt. grey shale
- 40
- 41 Hard shell
- 48 Sandy grey shale
- 50 1/2 Very hard sandstone
- 52 Sandy grey shale
- 54 1/2 Grey shale
- 55 Hard grey shell
- 61 Grey sandstone-water-2 1/2 GPM.
- 62 Hard shell
- 72 Grey shale
- 73 Brown shale-embedded ivory shell
- 75 Brown shale
- 79 1/2 Sandy lt. grey shale
- 82 Hard sandstone
- 85 Shaley grey sandstone-water, approx. 2 GPM
- 98 1/2 Sandy grey shale

Dip of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
10"	6 5/8" OD. .188 wall Steel Casing	1 foot above ground level	7' 3"			
10"	6 5/8" OD Plastic PVC .190 wall casing	7' 3"	98 1/2	1/4" drilled	30	92 1/2



Static Water Level for non-flowing well \_\_\_\_\_ 15 feet.

Shut-in Pressure for Flowing Well Not appl.

Pumping Water Level \_\_\_\_\_ 92 feet

at 10 1/2 gal. per minute.

Discharge in gal. per min. of flowing well Not applicable

How Tested Palmer

Length of Test 2 hours

SW 1/4 Sec 6 T36N R 8E  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Remarks: (Gravel packing, cementing, packers, type of shutoff). Well was drilled to 142 1/2 feet in quest of more water but to no avail. Hole plugged back to 110 ft. Gravel plug from

Doc. No. 420117  
Filed for record this 22 day of January 1971  
A. D. 19 71 at 11:45 o'clock P. M.  
Note: Water yield increased after reaming operation.

110 back to 98 1/2. Casing installed & gravel packed back to 27 1/2 feet. Cemented from 27 1/2 back to 110 ft. to seal off upper veins. (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.  
Formation from 98 1/2 to 142 1/2 ft. predominately grey shale-No water.

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.

46  
Driller's License Number  
Robert Greer  
Driller's Signature.

119065

420117

LLOYD E. WOLERY

TO

THE PUBLIC

NOTICE OF COMPLETION OF  
GROUNDWATER APPROPRIATION

STATE OF MONTANA, )  
COUNTY OF HILL )  
Record at 1:45 o'clock P.m.

JAN 22 1971

R. E. BLUM  
COUNTY CLERK

By \_\_\_\_\_ DEPUTY

FEE: \$2.00 paid

06

File No. ....

T. 36 N R. 8 E

DUPLICATE

County Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

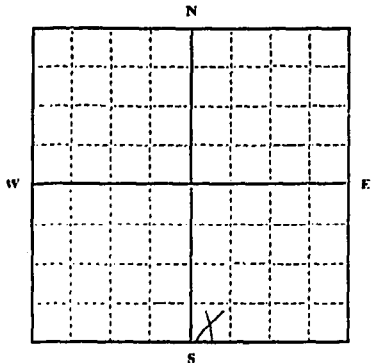
RECEIVED  
JAN 18 1962

Declaration of Vested Groundwater Rights

STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Lloyd Foley, of Joplin  
(Name of Appropriator) (Address) (Town)  
County of Hill State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



S. E. 1/4 Sec. 6, T. 36 R. 8

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.....  
Cattle

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....  
February - 1959  
continuous since that time

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....  
January - February 1959

8. The depth of water table.....  
2.5 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.....  
1 1/2 inch casing - 140 feet deep

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

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

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

Signature of Owner Lloyd Foley  
Date Nov 23, 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.

397226

LLOYD WOLERY

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA )  
COUNTY OF HILL )  
Filed at 11 o'clock am.

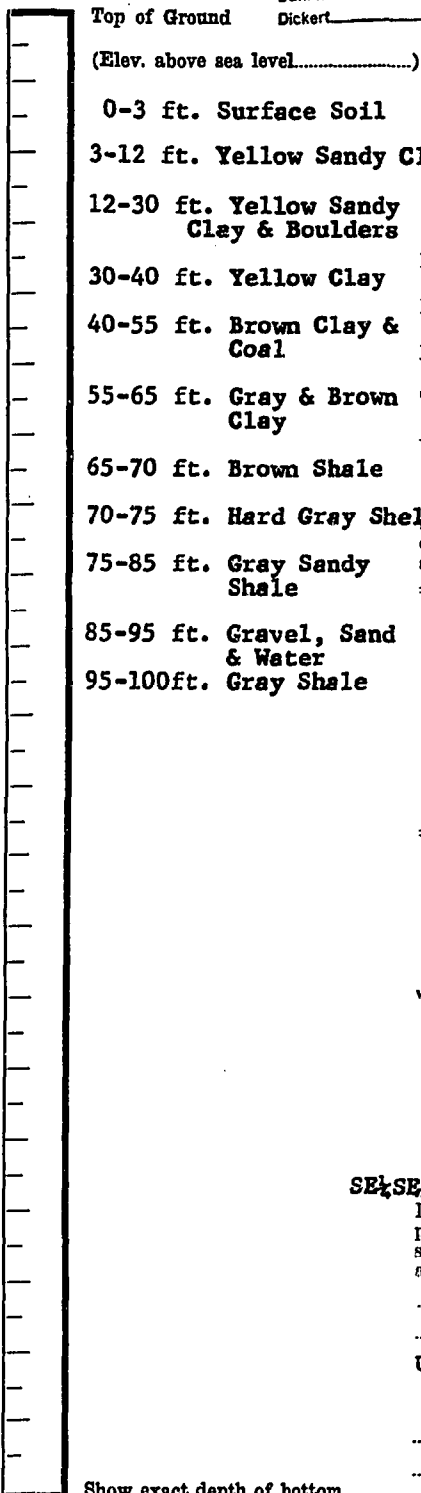
ON ~~DEC 31~~ 1963

W. E. Blum  
COUNTY CLERK

WED 11

FEE: \$2.00 pd.

DUPLICATE Billie \_\_\_\_\_ McDermott \_\_\_\_\_ County Hill  
 Butzerin \_\_\_\_\_ McNulty \_\_\_\_\_  
 LOG Coyle \_\_\_\_\_ Morton \_\_\_\_\_ STATE OF MONTANA  
 Darlinton \_\_\_\_\_ Sullivan \_\_\_\_\_ ADMINISTRATOR OF GROUNDWATER CODE  
 Dickert \_\_\_\_\_ OFFICE OF STATE ENGINEER



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

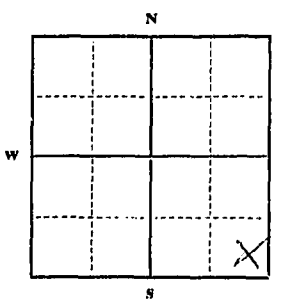
(Under Chapter 237, Montana Session Laws, 1961)

Owner Minneota School Address Inverness, Mont.  
 Driller Orville Jacobson Address Kremlin, Montana  
 Date of Notice of appropriation of groundwater Jan. 10, 1966  
 Date well started Jan. 10, 1966 Date completed Jan. 13, 1966

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)
5 1/2-in.	5 1/2-in. Galvan-ized 2 lb. per ft.	1-ft.	100ft.	1/2-in Drilled holes	30	100



Static Water Level for non-flowing well 30 feet.  
 Shut-in Pressure for Flowing Well \_\_\_\_\_ feet  
 Pumping Water Level 85 feet  
 at 5 gal. per minute.  
 Discharge in gal. per min. of flowing well \_\_\_\_\_

How Tested Bailer  
 Length of Test 2 Hrs.  
 Remarks: (Gravel packing, cementing, packers, type of shutoff) Gravel Packed and Surface to be Cemented

SE 1/4 Sec. 10, T. 36N, R. 8E.  
 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.

No. 42  
 Driller's License Number  
*Orville Jacobson*  
 Driller's Signature  
 40853



STATE OF MONTANA )

SS.

County of Hill )

CLIVE D. OWENS being first duly sworn, deposes, on oath and says:  
That he is a citizen of the United States, of lawful age, and a resident of Inverness, Montana; that he is the Chairman of the Board of Trustees of School District No. 50 in Hill County, Montana, and that said School District is the appropriator and claimant of the order and water right mentioned in the foregoing declaration of vested groundwater rights and the person whose name is subscribed thereto,, as chairman of the Board of Trustees of School District No. 50 as the appropriator and claimant; and that he knows the contents of said foregoing Notice and that the matters and things therein stated are true to the best of his knowledge, information and belief.

*Clive D. Owens*  
Clive D. Owens

SUBSCRIBED AND SWORN To before me this 17<sup>th</sup> day of February A.D.,  
1966.

(SEAL)

*L. D. Hauge*  
NOTARY PUBLIC for the State of Montana  
Residing at Havre, Montana  
My Commission expires January 16, 1968.

Doc. No. 405573

ORVILLE JACOBSON

TO

THE PUBLIC

NOTICE OF COMPLETION OF GROUND-WATER  
APPROPRIATION BY MEANS OF WELL

STATE OF MONTANA  
COUNTY OF HILL  
Filed at 3:00 o'clock P.M.

ON FEB 17 1966  
18 Blain  
COUNTY CLERK

for 102 gal

NOTICE OF COMPLETION OF GROUND-WATER APPROPRIATION BY MEANS OF WELL  
I, ORVILLE JACOBSON, of the County of Hill, State of Montana, do hereby certify that I have completed the appropriation of ground-water by means of a well located in the NE 1/4 of Section 10, Township 12N, Range 10E, County of Hill, State of Montana, and that the well is now capable of producing water at a rate of 102 gallons per minute. This appropriation was made pursuant to the provisions of the Ground Water Act, Chapter 10, Title 82, Montana Code Annotated, 1972 Edition. The well is located on the NW 1/4 of Section 10, Township 12N, Range 10E, County of Hill, State of Montana, and is owned by Orville Jacobson. The well is used for domestic purposes. The well is located on the NW 1/4 of Section 10, Township 12N, Range 10E, County of Hill, State of Montana, and is owned by Orville Jacobson. The well is used for domestic purposes. The well is located on the NW 1/4 of Section 10, Township 12N, Range 10E, County of Hill, State of Montana, and is owned by Orville Jacobson. The well is used for domestic purposes.

IN COMMISSION OF THE COUNTY CLERK OF HILL COUNTY, MONTANA  
KATHA M. BLOOM, COUNTY CLERK  
COUNTY OF HILL, MONTANA

GW

Approved Stock Form—State Publishing Co., Helena, Montana—4234

512

File No. ....

5 1/2 - 12 T. 36 R. 8 E

DUPLICATE

County Hill

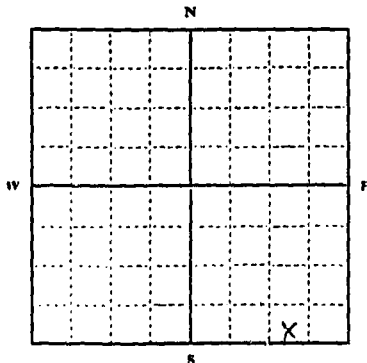
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 13 1964

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

1. Mrs Amanda Wickman, of Lanterness, Montana  
(Name of Appropriator) (Address) (Town)

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



SW 1/4 Sec. 12 T. 36 R. 8 East

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

2. The beneficial use on which the claim is based water for house use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been September 1940—used daily

4. The amount of groundwater claimed (in miner's inches or gallons per minute) do not know—used for household and watering cattle—30 head—has never gone dry

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 used for irrigation

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 about 1940

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 well is 110 feet deep—metal casing—electric pump

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

Signature of Owner Amanda Wickman  
Date Dec 30 '63

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

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

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

3141

MISSOURI STATE DEPARTMENT OF REVENUE

397083

AMANDA WICHMANN

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA  
COUNTY OF HILL  
Filed at 11 o'clock a.m.

ON 8.1 1963

COUNTY CLERK

BY DEPUTY

FEE: \$2.00 pd.

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

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.

(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 E.W. WICHMANN

Address NORTH ROUTE  
INVERNESS, MONTANA

Date well started NOVEMBER 1, 1972  
completed NOVEMBER 22, 1972

For Administrator's Use	
File	<u>426730</u>
Date	<u>January 18, 1973</u>
GW	<u>1 1:15 A.M.</u>

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

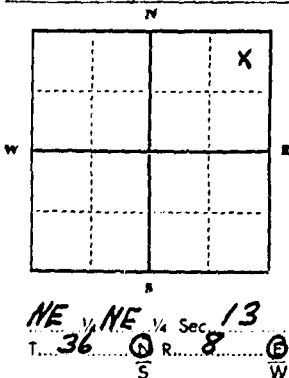
Equipment used CABLE TOOL RIG (Cable drill, rotary or other)

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 EXCEEDING 300,000 GALLONS

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS			
				Kind Size	From (Feet)	To (Feet)	
<u>8 1/2"</u>	<u>5 3/4" O.D. PVC PLASTIC 160#</u>	<u>1 FOOT ABOVE GROUND LEVEL</u>	<u>90 1/2</u>	<u>5/32"</u>	<u>DRILLED</u>	<u>90</u>	<u>145</u>
		<u>5 1/4" O.D. PVC PLASTIC 200#</u>	<u>90 1/2</u>				



Static water level 91 ft.\*  
Pumping water level 124 ft.\*  
at 13 1/2 gallons per minute, measured 180 minutes after pumping began.

\*Measured from ground level. Well developed by SAUER PUMP for 10 hours. Power ELECTRIC Pump 1/2 HP

Remarks: (Gravel packing, cementing, packers, type of shut-off) HOPE  
REANED TO 8 1/2" DIAMETER, CASING INSTALLED AND ANNULAR SPACE GRAVEL-PACKED FROM BOTTOM BACK TO 75 FT. CEMENT PLACED ABOVE GRAVEL, AND BENTONITE AND GRAVEL MIX PLACED ABOVE CEMENT. DRILLING MUD & CLAY FILL ABOVE BENTONITE AND GRAVEL MIX.

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

Driller's Signature Robert Quinn HI-LINE DRILLING SERVICE

Driller's Address 1173 6TH ST. No. PHONE 265-4210  
HAVER, MONTANA 59501 LICENSE NO. 46

Top of Ground (Elev. above sea level)	
From (Feet)	To (Feet)
0 to 2	GRAVELLY SOIL
5	GRAVELLY BROWN CLAY
12	BROWN SAND & CLAY MIX - GRAVELY SAND
16	GRAVELLY BROWN CLAY - SURFACE CASING RUN TO 16 FT.
23	BROWNISH-GREY CLAY
27	GREY CLAY
34	BROWN SANDSTONE
41	BROWN SHALE
42	HARD SANDSTONE
45	BROWN SANDSTONE
45 1/2	HARD SANDSTONE SHALE
47 1/2	BROWN SANDSTONE
52	FIRM SANDY GREY SHALE
56	BROWN SHALE
61	SANDY GREY SHALE
65	GREY SHALE - LAMINATED THIN SHELL
67	DARK BROWN SHALE
70	FIRM DARK GREY SHALE
83	FIRM GREY SHALE
85	DARK BROWN SHALE
91	BROWN SHALE
92	BROWN SHALE - LAMINATED THIN SHELL
95	SANDY LT. BROWN SHALE
107	BLUE-GREY SHALE
108	LT. BROWN SHALE
112	GREY SHALE
114	DARK BROWN SHALE - THIN COAL SEAMS
124	BROWN SHALE
127	DARK BROWN SHALE
130	COAL - WATER
133	BROWN SHALE
136	COAL - WATER - TOTAL YIELD 8 GPM
137	LIGHT BROWN SHALE
139	GREY SHALE
146	GREY SANDSTONE - WATER - TOTAL YIELD 12 GPM
150 1/2	SANDY GREY SHALE
150 6"	VERY HARD SHALE
NOTE: WATER YIELD INCREASED TO OVER 15 GPM AFTER REANING HOLE TO 8 1/2" DIAMETER	

150 1/2 Show exact depth of bottom

426930

C. W. WICHMANN

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA }  
COUNTY OF HILL } SS  
Filed at 11:15 o'clock A M

ON JAN 18 1973

R. E. Blom

BY David E. Day COUNTY CLERK  
DEPUTY

Fee: \$2.00 pd.

INDEXED

GV

Approved Stock Form—State Publishing Co., Helena, Montana—4234

File No. ....

T. 36 N. R. 8 E

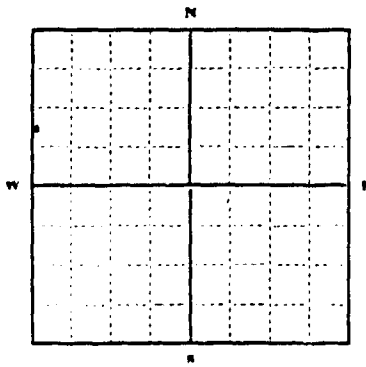
DUPLICATE

County Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

1. Olyn C. Wolcott, of Imperial  
(Name of Appropriator) (Address) (Town)  
County of Hill State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



11.0.34 Sec. 17 T. 36 R. 8

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 stock water
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1960 seasonal
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 8 gal
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal hand pump

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Fall of 1960
- 8. The depth of water table 140 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 140 ft. deep - 6 in
- 10. The estimated amount of groundwater withdrawn each year 1,000,000 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

Signature of Owner Olyn C. Wolcott  
Date Dec. 31, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.  
Please answer all questions. If not applicable, so state, otherwise the form will be returned.

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

31241

397184

OLYN C. WOLENY

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MICHIGAN  
COUNTY OF [unclear]  
Filed at [unclear] on [unclear]

BY J. E. Blum  
[unclear]

FEES: \$2.00 pd.



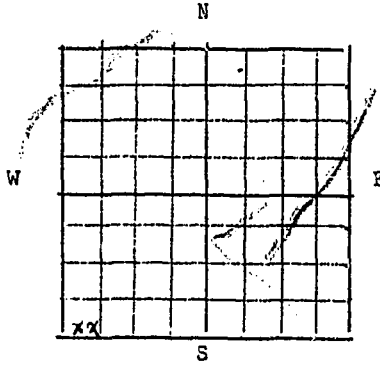
GW  
FILE NO. \_\_\_\_\_

TWP 36<sup>N</sup> RGE 8<sup>E</sup> 22  
COUNTY DEERBECK  
JAN 10 1963

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961) STATE ENGINEER

1. CHARLES LINEMEYER, of Deer Creek Mont  
(Name of Appropriator) (Address) (Town)  
County of Hill, State of \_\_\_\_\_  
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



SW 1/4 SW 1/4 Sec 22 T 36 R 8

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 2 water wells
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1945 practically continuous
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1 acre
- 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 acre
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal deep well pumps
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater completed 1948 started 1945
- 8. The depth of water table 180 ft
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6 in 150 ft
- 10. The estimated amount of groundwater withdrawn each year \_\_\_\_\_
- 11. The log of formations encountered in the drilling of each well if available \_\_\_\_\_
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record \_\_\_\_\_

Signature of Owner Charles Lineweaver  
Date 12/30/63

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

397222

L. LINNEWEAVER

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA, ss.  
COUNTY OF HILL )

Filed at 11 o'clock am.

DEC 31 1963

[Signature]  
COUNTY CLERK

DEPUTY

PRE: \$2.00 pd.

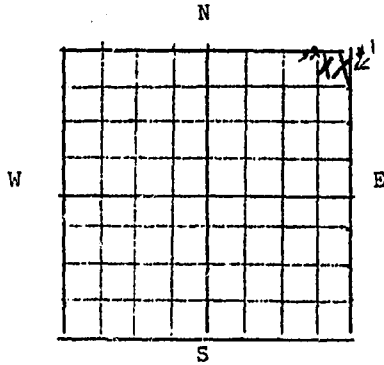
GW-4  
FILE NO. \_\_\_\_\_

TWP 36N RGE 8E 23  
COUNTY DEERBEAR  
JAN 1 1963

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961) STATE ENGINEER

1. Geo Blank, of Lawrence  
(Name of Appropriator) Hill (Address) Montana (Town)  
County of \_\_\_\_\_, State of \_\_\_\_\_  
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



NE + NE Sec 23 T 36 R 8

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

- The ~~beneficial use~~ on which the claim is based household & livestock
- Date or approximate date of earliest beneficial use; and how/continuous the use has been 1913  
used daily 1963
- The amount of groundwater claimed (in miner's inches or gallons per minute) \_\_\_\_\_
- If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof \_\_\_\_\_
- The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pumps
- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1913 1963
- The depth of water table #1 100-221
- So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 8 1/2 inch casing, and 36 in
- The estimated amount of groundwater withdrawn each year 100,000
- The log of formations encountered in the drilling of each well if available no flow
- 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 Geo Blank  
Date Dec 30 - 1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

396935

GRACE BLINK

TO

THE PUBLIC

REPARATION OF VESTED RIGHTS  
AND RIGHTS

STATE OF MONTANA )  
COUNTY OF HILL )  
Filed at L. 00 *o'clock* m.

BY *[Signature]*  
COUNTY CLERK

T 36 R 8 24  
County HILL

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
MAY 3 1961

WATER WELL LOG

STATE ENGINEER

Sec. 24


Owner LESTER AUSTIN Address HAVRE MONTANA  
Driller SIMPSON DR. CO. Address HAVRE, MONTANA  
Date Started 4/2/61 Date Completed 4/15/61  
Location: Sec. 24 T. 36 R. 8 1/4 sec. NE

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

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

Casing: 0 ft. to 94 ft. Type tuc Size 4

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

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

Perforated or Screened: Ft. 7 1/2 to ft. 90 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations 3/16 holes

Static Water level, for non-flowing well: 28 feet.

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

Pumping water level 50 feet at 2 1/2 gal. per min.

How tested: bailed

Length of test 1 hour

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

Lester Austin

(over)



DOCUMENT NO. 383420

LESTER AUSTIN  
TO  
THE PUBLIC

WATER WELL LOG

STATE OF MONTANA, )  
COUNTY OF HILL )  
Filed at 10:45 o'clock A.M.

ON MAY 2 1961

G.C. YEON

COUNTY CLERK

By \_\_\_\_\_ DEPUTY

FEE \$1.00- paid

66	59	sandstone
59	64	gray sandy shale
64	70	sandstone no water
70	74	gray shale
74	78	sandstone and water
82	81	blue shale
81	94	blue sandstone and water

File No. \_\_\_\_\_ FEB 18 1966

T-36 N. R. 8 E. M. 4

DUPLICATE

Bill \_\_\_\_\_ McDermott \_\_\_\_\_  
 Butcher \_\_\_\_\_ McNulty \_\_\_\_\_  
 Coyle \_\_\_\_\_ Morton \_\_\_\_\_  
 Darlington \_\_\_\_\_ Sullivan \_\_\_\_\_  
 Dickert \_\_\_\_\_

COUNTY OF HILL  
 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 Surface Soil
- 3-20 Yellow Sandy Clay
- 20-25 Yellow Clay & Boulders
- 25-55 Yellow Clay
- 55-60 Hard Gray Shells & Clay
- 60-90 Gray Clay
- 90-100 Gray Shale
- 100-105 Gray Shale & Sand Streaks
- 105-205 Gray Shale
- 205-207 Brown & Gray Shale
- 207-215 Gray Shale

Owner Kenneth Bangs Address Inverness, Montana

Driller Orville Jacobson Address Kremitt, Montana

Date of Notice of appropriation of groundwater 2/7/66

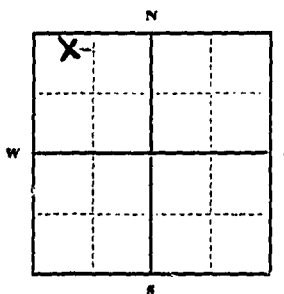
Date well started 1/14/66 Date completed 2/7/66

Type of well Brilled 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 (Foot)	To (Foot)	PERFORATIONS		
				Kind Size	From (Foot)	To (Foot)
8 in.	6 1/2-in. O.D. 10# per ft.	1 ft. Above Ground	215-ft.	Slot	80-ft	191-ft.



Static Water Level for non-flowing well ..... 80 feet.

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

Pumping Water Level..... 205 feet at 1 gal. per minute.

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

How Tested..... Bailer

Length of Test..... 2 Hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff)..... Gravel Packed; Surface to be cemented

NW 1/4 NW 1/4 Sec. 26 T. 36 N. R. 8 E.  
 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.

42 Driller's License Number

*Orville Jacobson*  
Driller's Signature

40854



Doc. No. 405562

KENNETH BANGE

TO

THE PUBLIC

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

STATE OF MONTANA  
COUNTY OF HILL  
*Filed at 3:00 o'clock P.M.*

ON FEB 16 1966

R. E. BLUM

COUNTY CLERK

BY

DEPUTY

*Lee H. 2nd pd*

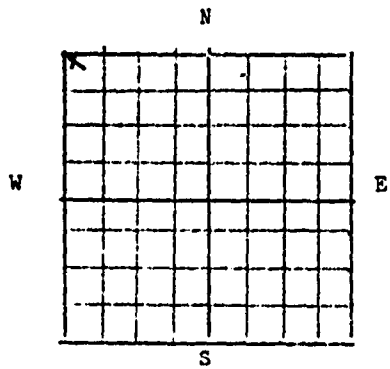
GW  
FILE NO. \_\_\_\_\_

TWP 3 N RGE 8 E  
COUNTY \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

1. Charles Linnweaver, of Success (Town)  
(Name of Appropriator) (Address)  
County of Hill, State of Mont  
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



NW 1/4 Sec 27 T. 36 R. 8

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

- 2. The beneficial use on which the claim is based water well
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1930
- 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 \_\_\_\_\_
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal shallow well pump
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater unobtainable
- 8. The depth of water table 25 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 8 x 20 ft
- 10. The estimated amount of groundwater withdrawn each year \_\_\_\_\_
- 11. The log of formations encountered in the drilling of each well if available gravel sand gravel base
- 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 Linnweaver  
Date 12/30/1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

397224

CHARLES LINSEBAVER

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA )  
COUNTY OF HILL )

Filed at 11 o'clock A.M.

ON 31 1963

\_\_\_\_\_  
COUNTY CLERK

FEES: \$2.00 pd.



3

File No. ....

T. 31 N 9 E

DUPLICATE

County .....

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 13 1964

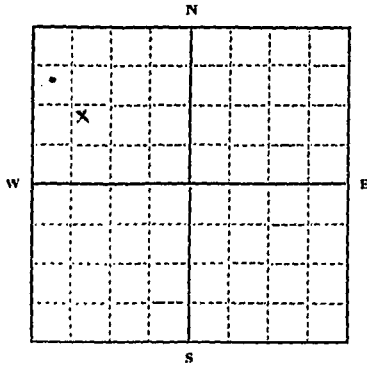
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Richard Jackson of Gildford  
(Name of Appropriator) (Address) (Town)

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



E 3 1/4 NW 1/4 Sec. 3 T. 36 R. 9

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

- 2. The beneficial use on which the claim is based. livestock well
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1961 used during summer months
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 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. NOT IRRIGATED
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. E 1/2 of NW 1/4 of 3-36-9
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1961
- 8. The depth of water table. 15 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. cylinder pump with 1 1/2" cylinder 18 ft deep
- 10. The estimated amount of groundwater withdrawn each year. 100,000 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. NOT APPLICABLE

Signature of Owner: Richard Jackson

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.

30985

396904

RICHARD JACKSON

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA } ss.  
COUNTY OF HILL }  
Filed at 8 o'clock P.M.

ON DEC 30 1963  
[Signature]  
COUNTY CLERK  
BY \_\_\_\_\_ DEPUTY

FEE: \$2.00 pd.

File No. ....

T. 36 N. R. 9. E

DUPLICATE

County Hill

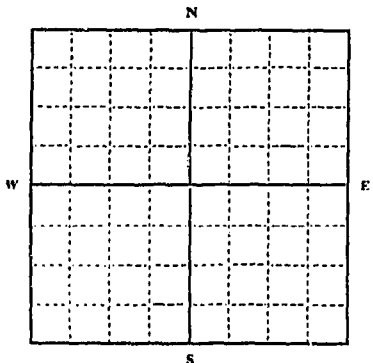
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 27 1963

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

1. Bergstrom, Eugene W. & Algot H. of Rydvard  
(Name of Appropriator) (Address) (Town)

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



SE 1/4 Sec. 5 T. 36 R. 9

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

2. The beneficial use on which the claim is based.....livestock, house, and trees in yard.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. April 1968, used continually.

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....Fall of 1957 started; completed April 1958.

8. The depth of water table.....800 feet.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.....drilled; 4 1/2"; 1515 feet.

10. The estimated amount of groundwater withdrawn each year.....Unable to estimate.

11. The log of formations encountered in the drilling of each well if available.....Enclosed on separate sheet.

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 to my knowledge.

Signature of Owner *Eugene W. Bergstrom*  
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.

396799

EUGENE W. & ALICE B. BERTSON

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA )  
COUNTY OF HILL )  
Filed at 11:30'clock A.M.

BY Jess (1963)  
J. B. Blain

COUNTY CLERK

BY \_\_\_\_\_

DEPUTY

FEES: \$2.00 pd.



GW:

File No. ....

T 36 N 9 E

DUPLICATE

County Hill

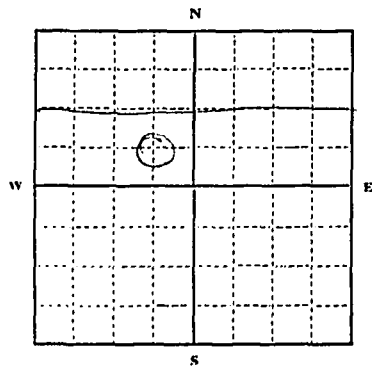
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 10 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Elmer F. LaBute, of Ridgelyard Box 463  
(Name of Appropriator) (Address) (Town)  
County of Hill State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



S 1/2 21 1/2 Sec. 7 T. 36 R. 9

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 stock  
& home use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Oct 1955 used  
continuously since then

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
E. electric pump - 2 hoses

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Oct 1955

8. The depth of water table well is 407 ft deep; water comes 100 ft from top

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

5" casing, 407 ft deep

10. The estimated amount of groundwater withdrawn each year enough for 50 head of stock &  
home use

11. The log of formations encountered in the drilling of each well if available at 100 ft drilling ground  
water veins at 16' - 32' - 60' & 400'

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

no other information  
none

Signature of Owner Elmer F. LaBute

Date 12-3-63

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.

396433

ELMER LABORTA

TO

THE PUBLIC

DECLARATION OF VESTED GROUND  
WATER RIGHTS

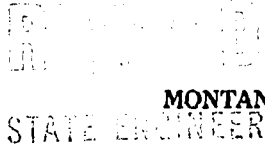
STATE OF MONTANA )  
COUNTY OF HILL )  
*Filed at 11:30 o'clock AM.*

QV 1963

R. E. Blom  
COUNTY CLERK

REC'D

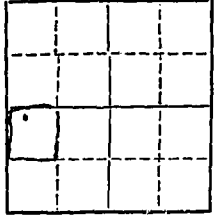
Fee: \$2.00 pd.



T. 36 N R. 9 E 14  
 County HILL

**MONTANA BUREAU OF MINES AND GEOLOGY**  
 Butte, Montana

**WATER WELL LOG**



Owner A. C. Langel Address Rudyard  
 Driller Orville Jacobson Address Chester  
 Date Started Nov. 2, 1957 Date Completed Dec. 20, 1957  
 Location: Sec. 14 T. 36 R. 9 1/4 sec. S.W.

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

Water use: Domestic  Municipal  Stock  overflow is   
 Irrigation   
 Industrial  Drainage  Other:.....

Casing: 0 ft. to 954 ft. Type Galvanized Size 5 1/2 9 lb.  
 Casing:.....ft. to.....ft. Make Spang Type..... Size.....  
 Casing:.....ft. to.....ft. Type..... Size.....

Perforated or Screened: Ft. none to ft..... Ft..... to ft.....  
 Type of screen or perforations 954 ft. to 1004 ft. Left open

Static Water level, for non-flowing well:.....feet.  
 Shut-in pressure, for flowing well:.....lb./sq. in. on:..... (date)

Pumping water level.....Flowing.....feet at 2 1/2 gal. per min.....  
 How tested:.....

Length of test..... To Date

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

A. C. Langel  
 (over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	3	surface soil
3	20	sand
20	30	yellow clay
30	40	brown clay
40	55	brown clay
55	110	gray clay and coal
110	170	gray silt and clay
170	265	gray silt and clay
265	700	gray silt and clay
700	820	gray silt and clay
820	825	silt and coal
825	840	silt and coal
840	850	brown
850	860	brown
860	875	gray silt and clay
903	907	sand water, showing of gas
907	927	sandy shale and silt
927	930	brown shale
930	935	sand and silt, gray
935	1004	crude oil, water flowing

DOCUMENT NO. 363713

A.C. IANGEL  
TO

THE PUBLIC

WATER WELL LOG

STATE OF MONTANA  
COUNTY OF ...  
Filed January 28th 1958  
at 11:45 AM

40	55	brown clay
55	110	gray clay and coal
110	170	gray silt and clay
170	265	gray silt and clay
265	700	gray silt and clay
700	820	gray silt and clay
820	885	silt and coal
885	940	silt and coal
940	950	brown
950	970	gray silt and clay

GN 4  
FILE NO. \_\_\_\_\_

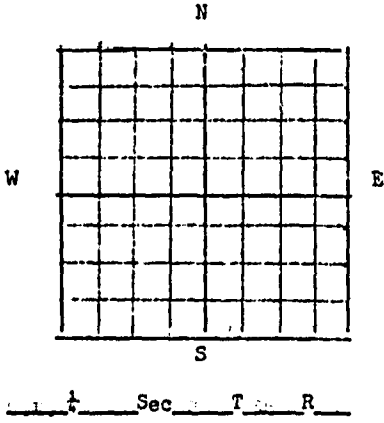
36<sup>N</sup> 9<sup>E</sup> 20  
TWP \_\_\_\_\_ RGE \_\_\_\_\_  
COUNTY \_\_\_\_\_

*Duplicate*

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

1. \_\_\_\_\_, of \_\_\_\_\_  
(Name of Appropriator) (Address) (Town)  
County of \_\_\_\_\_, State of \_\_\_\_\_  
Have appropriated groundwater according to the Montana law in effect prior to Jan. 1, 1962 as follows:



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 \_\_\_\_\_
3. Date or approximate date of earliest beneficial use; and how continuous the use has been \_\_\_\_\_
4. The amount of groundwater claimed (in miner's inches or gallons per minute) \_\_\_\_\_
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof \_\_\_\_\_
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal \_\_\_\_\_
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater \_\_\_\_\_
8. The depth of water table \_\_\_\_\_
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater \_\_\_\_\_
10. The estimated amount of groundwater withdrawn each year \_\_\_\_\_
11. The log of formations encountered in the drilling of each well if available \_\_\_\_\_
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record \_\_\_\_\_

Signature of Owner Harry H. Dietrich  
Date Feb 20 1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

GW-4  
FILE NO. \_\_\_\_\_

*Duplicate*

36<sup>N</sup> 9<sup>E</sup> 20  
TWP. 36 RGE  
COUNTY 50

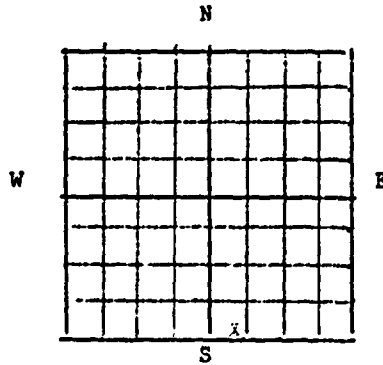
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

JAN 1 1963

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1962)

STATE ENGINEER

1. \_\_\_\_\_, of \_\_\_\_\_  
(Name of Appropriator) (Address) (Town)  
County of \_\_\_\_\_, State of \_\_\_\_\_  
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



\_\_\_\_\_ Sec. 20 T. 36 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 \_\_\_\_\_
3. Date or approximate date of earliest beneficial use; and how continuous the use has been \_\_\_\_\_
4. The amount of groundwater claimed (in miner's inches or gallons per minute) \_\_\_\_\_
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof \_\_\_\_\_
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal \_\_\_\_\_
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater \_\_\_\_\_
8. The depth of water table \_\_\_\_\_
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater \_\_\_\_\_
10. The estimated amount of groundwater withdrawn each year \_\_\_\_\_
11. The log of formations encountered in the drilling of each well if available \_\_\_\_\_
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record \_\_\_\_\_

Signature of Owner Harry H. Patrick  
Date Feb 30 1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

397340

HARRY A. PATRICK

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA,  
COUNTY OF HILL )  
Filed at \_\_\_\_\_ o'clock \_\_\_\_\_ m.

ON 06 26 1963

\_\_\_\_\_  
COUNTY CLERK

\_\_\_\_\_  
DEPUTY

FEE: \$2.00 pd.



GW-4  
FILE NO. \_\_\_\_\_

TWP 36N RGE 9E 21  
COUNTY \_\_\_\_\_

*Duplicate*

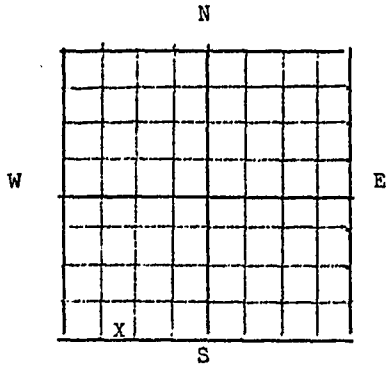
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 18 1964

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Harvey A. Patrick, of Bozward, Montana  
(Name of Appropriator) (Address) (Town)  
County of Blaine, State of Montana  
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



S.W.  $\frac{1}{4}$  Sec 21 T 36 R 9

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, Barn, Yard
  3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
1910 - continuous use
  4. The amount of groundwater claimed (in miner's inches or gallons per minute)  
Five to 10 gpm
  5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
Not applicable, insufficient amount
  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  
Jan. 1910
  8. The depth of water table  
Jan. 100 feet
  9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater  
5 inch, 100 feet
  10. The estimated amount of groundwater withdrawn each year  
Not available
  11. The log of formations encountered in the drilling of each well if available  
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 Harvey A. Patrick  
Date Dec 30 - 1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

GW-4  
FILE NO. \_\_\_\_\_

TWP 36N RGE 9E  
COUNTY 2477

21

*Duplicate*

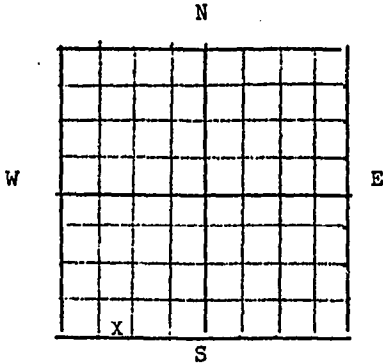
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 18 1964

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Harry A. Patrick, of Butward, Montana  
(Name of Appropriator) (Address) (Town)  
County of Hill, State of Montana  
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



S.W.  $\frac{1}{4}$  Sec 21 T 36 R 9

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, Farm, Yard
3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
1916 \* continuous use
4. The amount of groundwater claimed (in miner's inches or gallons per minute)  
App. five gal. per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
Not applicable, insufficient amount
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
None
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
App. 1916
8. The depth of water table  
App. 150 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  
4 inch, 150 feet
10. The estimated amount of groundwater withdrawn each year  
Not available
11. The log of formations encountered in the drilling of each well if available  
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 Harry A. Patrick  
Date Feb 30-1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

31159

397101

HARRY A. PATRICK

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

*Filed*

*Dec 31. 1963*

*11<sup>00</sup> am*

*H. A. Patrick*

WEB: \$2.00 pd.

GW-4  
FILE NO. \_\_\_\_\_

*Duplicate*

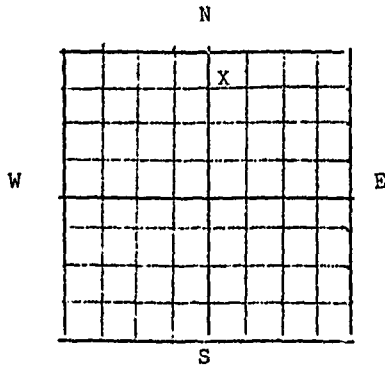
TWP 35 <sup>N</sup> RGE 9 <sup>E</sup>  
COUNTY HILL

28

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

1. Harry A. Patrick, of Butward, Montana  
(Name of Appropriator) (Address) (Town)  
County of Hill, State of Montana  
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



N.W. 1/4 Sec 28 T 36 R 9

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, Farm, Yard, Stock
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
1914 - continuous use
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute)  
Not given gal. per minute
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
Not applicable, insufficient amount
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
None
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
Jan. 1914
- 8. The depth of water table  
Not available
- 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  
2 inches, 100 feet
- 10. The estimated amount of groundwater withdrawn each year  
Not available
- 11. The log of formations encountered in the drilling of each well if available  
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 Harry A. Patrick  
Date Feb 30 1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

GW 4  
FILE NO. \_\_\_\_\_

*Duplicate*

TWP 36 N RGE 9 E  
COUNTY HILL

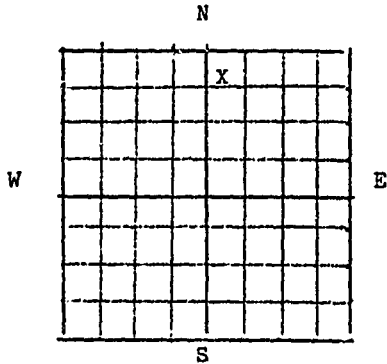
28

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

JAN 18 1964

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

1. Harry A. Patrick, of Rudyard, Montana  
(Name of Appropriator) (Address) (Town)  
County of Hill, State of Montana  
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



N.W. 1/4 Sec 28 T 36 R 9

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, Farm, Yard, Stock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
1916 - continuous use

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
None

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
App. 1916

8. The depth of water table  
App. 190 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  
2 inches, 190 feet

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

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

Date Nov 30 1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

31113

397042

HARRY A. PATRICK

TO

THE PUBLIC

DECLARATION OF WASTED  
GROUNDWATER RIGHTS

STATE OF MONTANA,  
COUNTY OF HILL,  
Filed at 1 o'clock p.m.

BY Harry A. Patrick DEC 30 1963

COUNTY CLERK

DEPUTY

FFY: \$2.00 pd.

RECEIVED

364-9E  
County HILL 29

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

JUN 12 1973

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, 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 ORVILLE SOLUM

Address RUDYARD,

MONTANA

Date well started 8/9/72

completed 8/12/72

Type of well DRILLED

(Dug, driven, bored or drilled)

Equipment used CABLE TOOL RIG

(Churn drill, rotary or other)

Water Use: Domestic  Municipal  Stock  Irrigation

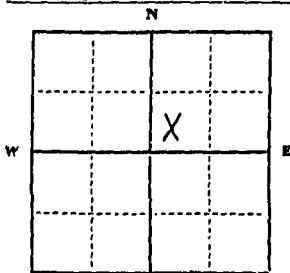
Industrial  Drainage  Other \* Garden/Lawn

\*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 EXCEEDING 500,000 GALLONS

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
9 1/2"	6 5/8" O.D. PVC 160#	2 FEET ABOVE GROUND LEVEL	62	7/32" DRILLED	63	80
	6 5/8" O.D. PVC 180#		62			



Static water level 7 ft.\*  
Pumping water level 20 ft.\*  
at 20 gallons per minute,  
measured .60 minutes after pumping  
began.

\*Measured from ground level.  
Well developed by BAUER  
for 6 hours.

Power..... Pump..... HP

Remarks: (Gravel packing, cementing, packers, type of shutoff) HOLE REAMED TO 9 1/2" DIAMETER TO 82 FT. GRAVEL-PACKED BACK TO 22 FT. CEMENTED ABOVE GRAVEL PACK

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

Driller's Signature Robert Quinn HI-LINE DRILLING SERVICE

Driller's Address 1173 6TH ST. No. PHONE 265-4110

HAVER, MONTANA 59501 LICENSE NO. 416

Top of Ground		(Elev. above sea level)
From (Feet)	To (Feet)	
0	2	SOIL
	10	BROWN CLAY
	14	SANDY BROWN CLAY
	20	BROWN CLAY - SMALL Boulders
	75	GREY CLAY
	75 1/2	SHARP SAND + GRAVEL - LADEN WITH IVORY SHELL - WATER 1 GPM
	80	COAL - WATER - APPROX 15 GPM
	82	DARK BROWN SHALE
NOTE: HOLE WAS REAMED TO 9 1/2" DIAMETER TO 82 1/2" FOOT LEVEL. COAL VEIN FROM 75 1/2 FT. TO 80 FT. QUITE LOOSELY CAUSING LARGE CAVITY. WELL WAS GRAVEL-PACKED AFTER CASING WAS INSTALLED WITH CAVITY REQUIRING APPROX. 1 1/4 BARRELS OF GRAVEL ALONE. YIELD INCREASED FROM 15 GPM TO WELL OVER 30 GPM		

82 Show exact depth of bottom

53,466

428175

ORVILLE SOLUM

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA } SS  
COUNTY OF HILL }  
Filed at 1:00 o'clock P.M.

ON JUN 11 1973

R. E. Blom

BY D. L. G. [Signature] COUNTY CLERK  
DEPUTY

Fee:\$2.00 pd.

INDEXED



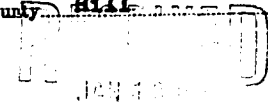
File No. \_\_\_\_\_

T. 36 N. R. 9 E.

DUPLICATE

County Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER



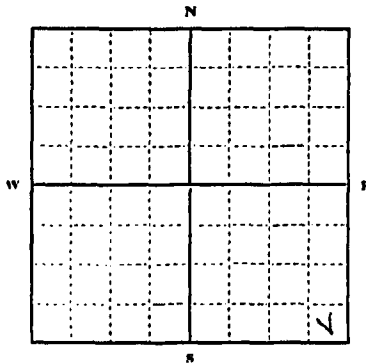
Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Harold R. and Evalyn B. Wanke, of Rudyard  
(Name of Appropriator) (Address) (Town)

County of Hill State of Montana

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



SE 1/4 Sec. 31 T. 36 R. 9

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, livestock and irrigation.

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 200 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. SE 1/4 of Section 31, Township 36 North, Range 9 East M.P.M.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. A drilled well with electric pump located in Southeast corner of said SE 1/4 of Section 31, Township 36 North, Range 9 East M.P.M.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1917

8. The depth of water table. ground level

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. 112 feet deep, drilled well with 112 feet of 6 inch casing and screen set at bottom of casing.

10. The estimated amount of groundwater withdrawn each year. 25,000,000 gal

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

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

Signature of Owner: Harold R. Wanke  
Evalyn B. Wanke

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. 31256

397199

HAROLD R. & EVELYN B. WANNE

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MICHIGAN  
COUNTY OF HILL  
*Harold R. & Evelyn B. Wanne*

NOTARIAL PUBLIC  
COUNTY OF HILL  
MICHIGAN

FEE: \$2.00 pd.

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 R. JEVLYN B. WANK  
Address RUDYARD, MONTANA  
Date well started 7/28/72  
completed 8/2/72

For Administrator's Use
File <u>210237</u>
Date <u>Jan. 15, 1973</u>
GW 1 <u>1.c.c.p.m.</u>

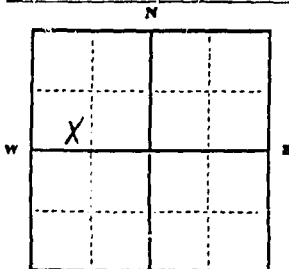
Type of well DRILLED  
(Dug, driven, bored or drilled)  
Equipment used CABLE TOOL RIG  
(Churn drill, rotary or other)

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 EXCEEDING 500,000 GALLONS

Size of Drilled Hole	Size and Weight of Casing	From (Foot)	To (Foot)	PERFORATIONS
<u>6 1/8"</u>	<u>6 5/8" O.D. 3 INCHES</u>	<u>0</u>	<u>35</u>	NO PERFORATIONS. WATER COMING IN THRU BOTTOM OF DRIVE SHOE AT 12.2 FOOT LEVEL
<u>6 5/8"</u>	<u>1 3/8" WALL 13# PER FOOT</u>	<u>ABOVE GROUND LEVEL</u>	<u>12.2 FT</u>	



SW 1/4 NW 1/4 Sec 33  
T. 36 N. R. 1 E.

Static water level 44 ft.\*  
Pumping water level 75 ft.\*  
at 60 gallons per minute,  
measured 60 minutes after pumping  
began.  
\*Measured from ground level.  
Well developed by BAILER  
for 5 hours.  
Power GAS MOTOR PUMP 1/2 HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff) WELL GRADED  
TO 8 1/2" DIAMETER TO 35 FT. AND  
4 1/2" COMPLETION OF WELL. ANNUAL  
SPACE FILLED WITH DRILLING MUD  
TO 15 FT. + CEMENTED FROM  
15 FT. BACK TO SURFACE

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

Driller's Signature Hubert Quinn Hill-Line Drilling Service  
Driller's Address 1113 6th St. N. PHONE 265-4210  
HAURE, MONTANA 59501 LICENSE NO. 46

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 (Foot)	To (Foot)
<u>0</u>	<u>3</u>
<u>17</u>	<u>20</u>
<u>37</u>	<u>42</u>
<u>65</u>	<u>73</u>
<u>84</u>	<u>102</u>
<u>105</u>	<u>110</u>
<u>114</u>	<u>117</u>
<u>119</u>	<u>120</u>
<u>122</u>	<u>122</u>

SANDY SOIL  
SANDY BROWN CLAY  
SATURATED BROWN SAND-CAVING HARD - RUN 8 1/2" TEMPORARY CASING  
SANDY BROWN CLAY  
SANDY GREY CLAY  
GREY CLAY - PEBBLES  
SANDY GREY CLAY  
GREY CLAY - FRAGMENTS OF SHALE  
SANDY GREY CLAY  
GREY SILT + SAND - CAVING HARD - RUN 6 5/8" CASING  
SANDY GREY CLAY  
SILTY GREY CLAY  
GREY SAND - FRAGMENTS OF COAL - SOME WATER VERY DIRTY  
GREY SAND - VERY LITTLE GRAVEL - WATER  
SHARP SAND + GRAVEL - LADEN WITH LUMPY SHELL & SHALE FRAGMENTS. WATER NOT CLEARING WELL.  
GREY SAND + GRAVEL - SMALL TO 1/8" DIAMETER  
WATER CLEARING AND YIELD INCREASED TO OVER 30 GPM  
YIELD: 75 GPM WITH 2 FEET OF DRAWDOWN BY BAILEY TEST

122 Show exact depth of bottom

428231

harold r. wanke &  
evelyn b. wanke

to

THE PUBLIC

WATER WELL

STATE OF MONTANA | SS  
COUNTY OF HILL |  
Filed at 1:00 P.M.

ON JUN 15 1973

R. E. Blom

COUNTY CLERK  
BY *[Signature]* DEPUTY

Fee:\$2.00 pd.