

17

File No.....

T. 31 N R. 8 E

DUPLICATE

County Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 27 1963

STATE ENGINEER

### Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater.....

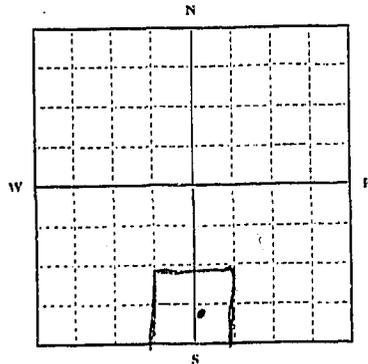
Owner Albert C. Lincoln Address Joplin, Montana

Contractor (if any) unavailable

Address of Contractor .....

Date Started unknown Date Completed unknown

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. natural over-flowing spring



SW 1/4 NE Sec. 17, T. 31, R. 8

Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use seven

to eight months during the summer. average yearly amount used would be approx 100,000 yearly.

Signature of Owner Albert C. Lincoln

Date 12-23-63

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

396711

ALVART C. LINCOLN

TO

THE PUBLIC

NOTICE OF COMPLETION OF GROUND  
WATER APPROPRIATION WITHOUT WELL

STATE OF MONTANA, ) ss.  
COUNTY OF HILL )  
Filed at 1 o'clock P.M.

ON DEC 23 1963

R. E. Blom

COUNTY CLERK

By

DEPUTY

Fee: \$2.00 pl.



File No. ....

T. 31 N R. 9 E 3

DUPLICATE

MONTANA DEPARTMENT OF SOARS

County HILL

LOG

MAY 25 1968

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)

and Gertrude Lambott

Owner LOUIS H. LAMBOTT Address HOYARD, MONTANA

Driller HI-LINE DRILLING SERVICE Address HAVRE, MONTANA

Date of Notice of appropriation of groundwater.....

Date well started 3/16/68 Date completed 3/26/68

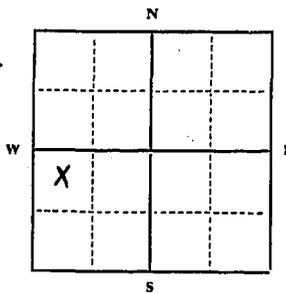
Type of well DRILLED Equipment used CABLE TOOL RIG  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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 To Top of Ground (Elev. above sea level.....)
  - 2 SOIL
  - 12 GRAVELLY BROWN CLAY
  - 23 BROWN CLAY
  - 36 YELLOWISH-BROWN CLAY
  - 42 BROWNISH-GREY CLAY
  - 53 GREY CLAY
  - 56 GRAVELLY GREY CLAY
  - 80 1/2 GREY CLAY - SMALL BOULDERS
  - 82 HARD SANDSTONE - TRACE OF WATER
  - 90 BLUE-GREY SHALE
  - 94 SANDY LT. BROWN SHALE
  - 100 MEDIUM GREY SHALE
  - 101 BROWN SHALE - TRACE OF COAL
  - 105 LT. BROWN SHALE
  - 106 1/2 HARD SHELL
  - 107 1/2 FIRM SANDY BROWN SHALE
  - 110 1/2 HARD SANDSTONE SHELL
  - 114 SANDSTONE - WATER - APPROX 9' GPM
  - 115 BROWN SHALE
  - 116 SANDY BLUE-GREY SHALE
- FINAL YIELD AFTER DRILLING GRAVEL PLUG OUT OF SANDSTONE AND ENLARGING DIAMETER OF HOLE FROM 110 1/2 TO 115 FT. LEVEL - 11 GALLONS PER MINUTE BAILING FROM BOTTOM
- HARDNESS - 2 CRAINS P.H. 8.5 HAS SLIGHT SULFUR ODOR Show exact depth of bottom.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 3/4"	6 5/8" O.D. 13" PER FT. CALVANIZED	1 FOOT ABOVE GROUND LEVEL	110	(NO PERFORATIONS)		
				WATER COMING THRU BOTTOM OF CASING AT 110 FOOT LEVEL		SANDSTONE LEFT OPEN - NOT Cased



Static Water Level for non-flowing well 67 feet.

Shut-in Pressure for Flowing Well NOT APPL.

Pumping Water Level 107 feet at 8 gal. per minute.

Discharge in gal. per min. of flowing well NOT APPLICABLE

How Tested BALER + PUMP

Length of Test 4 HOURS

Remarks: (Gravel packing, cementing, packers, type of shutoff) CASING SET AT 110 FT. LEVEL SANDSTONE BRUSHED WITH CRAVEL ANNULAR SPACE AROUND CASING RECENTERED FROM 110 FT. BACK TO APPROX. 60 FT. GRAVEL PLUG IN SANDSTONE DRILLED OUT AFTER CEMENT SET + WELLS COMPLETED

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).

46  
Driller's License Number

Hubert Brains  
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, tissue copy to be retained by driller.

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

44,160

411246

LOUIS H. LAMBOTT AND  
GERTRUDE LAMBOTT

TO

THE PUBLIC

GROUND WATER APPROPRIATION

STATE OF MONTANA, )  
COUNTY OF HILL ) ss.  
Filed at 8:00 o'clock A.M.

ON MAY 23 1968

R. E. BLUM  
COUNTY CLERK

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

fee: \$2.00 paid

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

T. 31 R. 9 F

DUPLICATE

County Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 1 1963

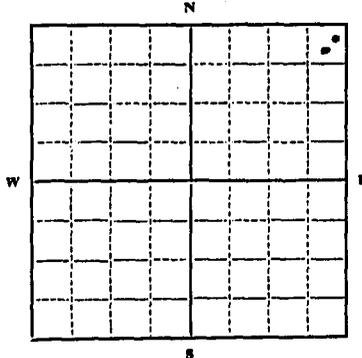
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. LYLE A AND MARLORIE ELAINE HADFORD of Reedford Mont.  
(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:



NE 1/4 Sec. 9 T. 31 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.....  
Household & Stock use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....  
1912 and cont. 1958

4. The amount of groundwater claimed (in miner's inches or gallons per minute).....  
10 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.....  
None

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.....  
1912  
Oct. 1958

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

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.....  
6" casing 90 ft drilled well  
6" drilled well 130 ft

10. The estimated amount of groundwater withdrawn each year.....  
60,000 gal

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

LYLE A AND MARLORIE ELAINE HADFORD

Signature of Owner By Lloyd Hadford

Date 12-22-63

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.

396876

LYLS & MARJORIE HADFORD

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA )  
COUNTY OF HILL )

Filed at 11 o'clock a.m.

ON 10/21/63

COUNTY CLERK

BY \_\_\_\_\_

NOTARY

FEES \$2.00 pd.



427640

CLARENCE LYNCH

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA } SS  
COUNTY OF HILL  
Filed at 1:45 o'clock P.M.

ON APR 17 1973

R. E. Blom  
COUNTY CLERK  
BY David E. Gray DEPUTY

Fee: \$2.00 pd.

INDEXED

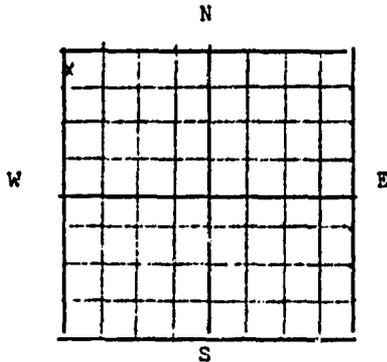
GW 4  
FILE NO. \_\_\_\_\_

TRP 31 PAGE 9  
COUNT H 111

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER JOBS  
OFFICE OF STATE ENGINEER

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

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



NW 1/4 Sec 11 T 21 R 7

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
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1903 continuous use
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 39 PM
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 NO
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 NOT AVAILABLE
8. The depth of water table 40 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 \_\_\_\_\_
10. The estimated amount of groundwater withdrawn each year 25,000 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 Blaine Lynch

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.

31094

397023

CLARENCE LITCH

TO

THE PUBLIC

DECLARATION OF VISITED  
GROUNDWATER RIGHTS

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

ON DEC 30 1963

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

\_\_\_\_\_  
DEPUTY

FF: \$2.00 pd.

File No. ....

T. 14 R. 9

DUPLICATE

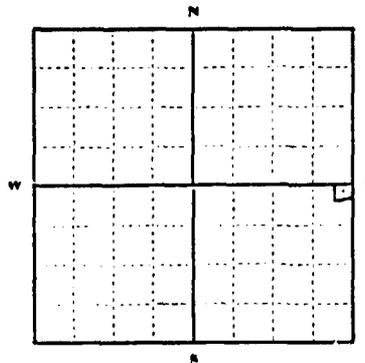
County DEERBECK

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Allen Tweed of Box 43 Rudvard  
(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. 23 T. 31 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 and livestock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been... 1923 and 1941  
Steady use
4. The amount of groundwater claimed (in miner's inches or gallons per minute)... 3 gallons a minute each
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... No irrigation
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal... Submersible pumps
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater... 1923 and 1941
8. The depth of water table... 170 and 250 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 6 inch casing 170 feet deep  
Well #2. Drilled 6 inch casing 290 feet deep.
10. The estimated amount of groundwater withdrawn each year... 70,000
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... Not known

Signature of Owner... Allen Tweed

Date... Dec 27 1963

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

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

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

30970

396874

ALLEN TWEDT

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

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

BY DEC 27 1963  
J. E. Blom  
COUNTY CLERK

FEE: \$2.00 pd. DEPUTY



396807  
HARLAN WENDLAND

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA, ) ss.  
COUNTY OF HILL )  
*Filed at 12:36 o'clock P.m.*

ON - DEC 26 1963

*H. P. Blain*  
COUNTY CLERK

DEPUTY

FEE: \$2.00 pd.

T. 31N R. 9E 34  
County Hill

RECEIVED  
AUG 26 1957

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

STATE ENGINEER

WATER WELL LOG

1		

Owner *Oliver Krizic* Address *Rudyard*  
Driller *Bill Martin* Address *Rudyard*  
Date Started *July 20* Date Completed *August 8*  
Location: Sec. *34* T. *31* R. *9* 1/4 sec. *SW*

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

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

Casing: *0* ft. to *103* ft. Type *Steel* Size *5 1/2"*  
Casing: *0* ft. to *240* ft. Type *Galv Iron* Size *4"*  
Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. *80* to ft. *150* Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations *Punched Holes*

Static Water level, for non-flowing well: *80 ft.* feet.

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

Pumping water level: *235* feet at *1/2* gal. per min.

How tested: *Bailed & Pumped*

Length of test: *2 days*

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

*Heavy casing is gravel packed*

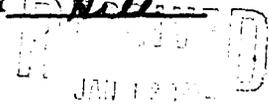
(over)



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

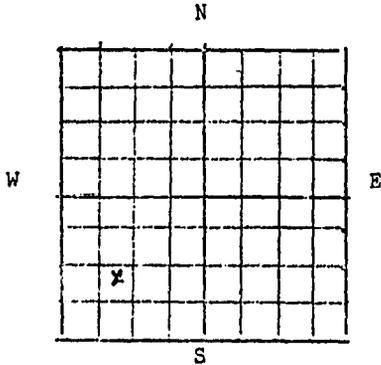
TWP 31<sup>N</sup> RGE 9<sup>E</sup> 34  
COUNTY Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER



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

1. Alvin L. Kyci, of Redwood  
(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. 1/4 Sec 34 T. 31 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 Household
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1957  
Continuous
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gal  
per minute
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof \_\_\_\_\_
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Deep well  
head
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1957
- 8. The depth of water table 90
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Deep  
well - 525 ft.
- 10. The estimated amount of groundwater withdrawn each year 127,750 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 Alvin L. Kyci  
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.

396963

STATE OF MICHIGAN

PROVINCE

PROVINCE

STATE OF MICHIGAN  
COUNTY OF ...  
*[Signature]*

1968  
*[Signature]*  
COUNTY CLERK

SECTION

12.00 pd.

6

File No. ....

T. N 4 E

DUPLICATE

County. ....

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

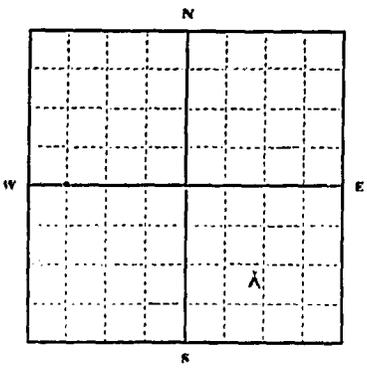
RECEIVED  
DEC 27 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

I, Phillip Woodland, of Bozeman, (Name of Appropriator) (Address) (Town)

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



1/4 Sec. 33 T. 31 R. 7

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: Phillip Woodland

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.

394803

PHILIP F. BOLAND

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA, ss.  
COUNTY OF HILL  
Filed at 12:30'clock P.M.

APR 26 1963  
I G. Blain  
COUNTY CLERK

DEPUTY

Fees 22.00 pd.



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

TWP 31 N RGE 10 E  
COUNTY Hill

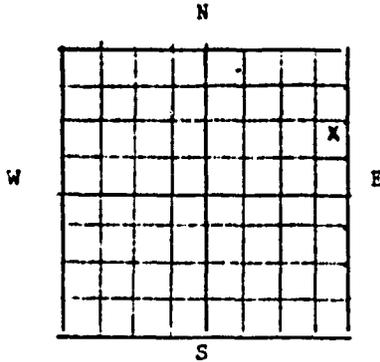
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Arthur L. Connolly, of Hingham  
(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:



NE 1/4 Sec 7 T31 R10E

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  
Wells for irrigation & stock water

3. Date or approximate date of earliest beneficial use, and how continuous the use has been.  
Sept 1929

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
1929 - 1931

8. The depth of water table  
110 to 120 ft

9. So far as it may be available, the type, size and depth of each well or the capacity specifications of any other works for the withdrawal of groundwater  
well 209 ft deep

10. The estimated amount of groundwater withdrawn each year  
110 000 gals

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

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

Signature of Owner Arthur L. Connolly

Date Dec 21 - 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.



GW3

File No. ....

DUPLICATE

T. 31 R. 10 E 18

County HILL

RECEIVED  
DEC 10 1963

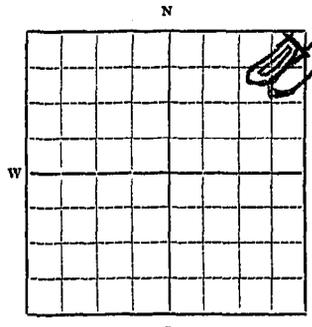
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater SEPT. 25, 1963  
Owner HOWARD O. DOLPH Address HINGHAM, MONT.  
Contractor (if any) LLOYD TWEDT  
Address of Contractor HINGHAM, MONT.  
Date Started SEPT 11, 1963 Date Completed SEPT. 24, 1963



Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. BUILT A DAM ACROSS THE CULLEE, 6665 YDS. APPOX. WATER DEPTH FROM RUNOFF. MAXIMUM 20 FT. DEEP TO ZERO

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

NE 1/4 Sec. 18 T. 31 R. 11

Indicate point of appropriation and place of use, if possible.

PROPOSED 3 MO. SPRINKLE IRRIGATION APPROXIMATELY TWENTY ACRES (MOD) AT AVERAGE DEPTH OF 10 FT. MEASURED AROUND THE HIGH

WATER MARK SET BY SIGHT LEVEL. USE FOR STOCK WATER 9 MONTHS OF YEAR  
Signature of Owner Howard O. Dolph

Date DEC. 6, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

396406

HOWARD O. DOLPH

TO

THE PUBLIC

NOTICE OF COMPLETION OF GROUND  
WATER APPROPRIATION WITHOUT WELL

STATE OF MONTANA, )  
COUNTY OF HILL )  
*Filed at 1:30 o'clock P.M.*

ON DEC 6 1963

R. E. Blom

COUNTY CLERK

By \_\_\_\_\_

DEPUTY

Fee: \$2.00 pd.

oww

File No. ....

DUPLICATE

T. 31 R. 11 E.

County HILL

RECEIVED  
DEC 10 1963

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

### Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater SUMMERS OF 1911, 1958, 1959, 1961, 1962 + 1963

Owner HOWARD O. DOLPH Address HINGHAM, MONT.

Contractor (if any) LLOYD T. W. E. D. T.

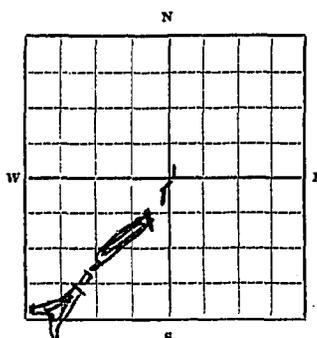
Address of Contractor HINGHAM, MONT.

Date Started 1911 Date Completed 1963

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. DAMS AND WATER

SPREADING DIKES SURFACE

RUNOFF ZERO TO 18 FT. DEEP



1/4 Sec. 18 T. 31 R. 11  
Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

APPROX. 10 A. IN DAMS ZERO TO 18 FT. DEEP

APPROX. 15 A. IN SPREADER DIKE.

AVERAGE DEPTH 2 FT. to ZERO

USE: EROSION CONTROL, WILDLIFE, STOCK, IRRIGATION  
YEAR ROUND YEAR ROUND 9 MO. 3 MO.

Signature of Owner Howard O. Dolph

Date Dec. 6, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

8260

396407

HOWARD D. DOLPH

TO

THE PUBLIC

NOTICE OF COMPLETION OF GROUND  
WATER APPROPRIATION WITHOUT WELL

STATE OF MONTANA, ) ss.  
COUNTY OF HILL )  
*Filed at 1:30 o'clock P.M.*

ON DEC 6 1963

R. E. Blom  
COUNTY CLERK

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

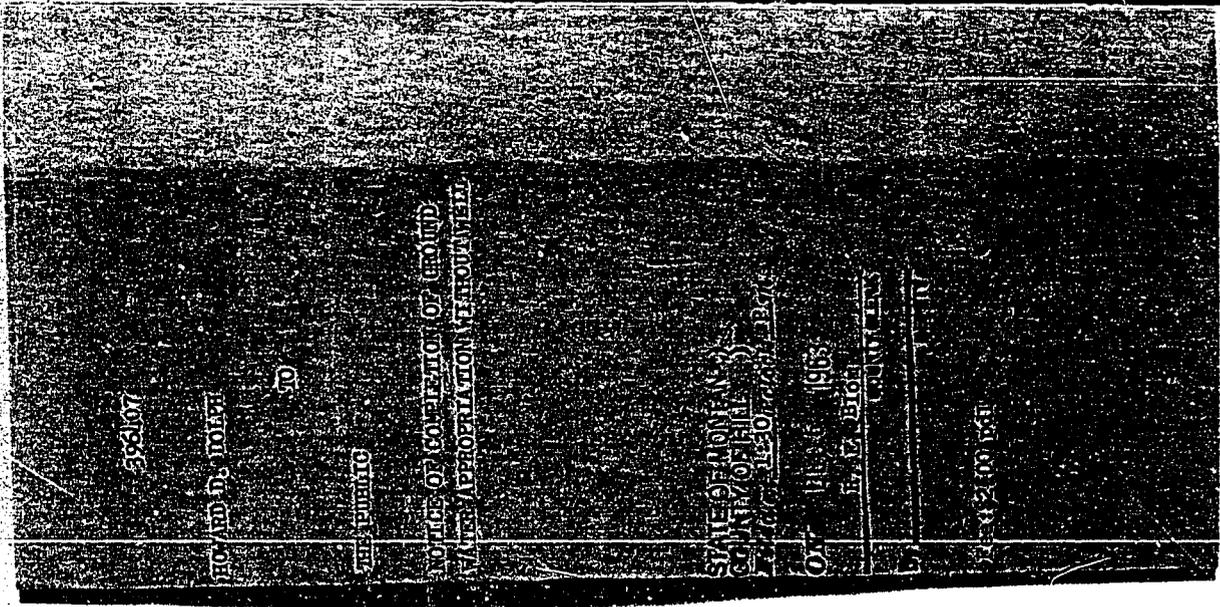
Fee: \$2.00 pdT

Howard O. Dolph, Hingham, Montana  
May 19, 1964

396406 & 396407

12-6-63

from a storage reservoir on both documents



Howard O. Dolph, Hingham, Montana

May 19, 1964

12-6-63

396406 & 396407

from a storage reservoir on both documents

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

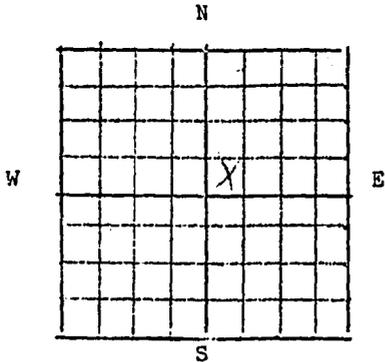
TWP 31<sup>N</sup> RGE 10<sup>E</sup> 21  
COUNTY Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

JAN 19 1963

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

1. Steve Welch, of Hangman  
(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 1/4 NE Sec 21 T 31 R 10

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1950 - 8 months per year

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1950

8. The depth of water table 125'

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" - 175'

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 \_\_\_\_\_

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 Steve Welch

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.

396967

STATE OF MONTANA

COUNTY OF HILL

DEPARTMENT OF REVENUE  
STATE OF MONTANA

STATE OF MONTANA  
COUNTY OF HILL  
*Filed at [unclear] [unclear]*

EXCELSIOR, MONTANA  
*[Signature]*  
COUNTY CLERK

: 2.00 pl.

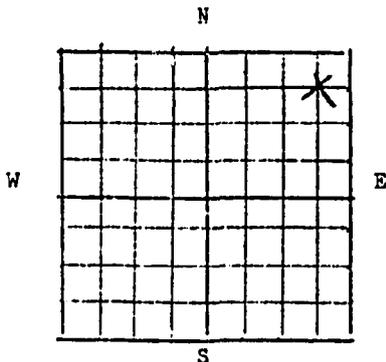
GW.A  
FILE NO. \_\_\_\_\_

TWP 31 N RGE 10 E 200  
COUNTY Hill

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. Steve Welch, of Highland, 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:



NE 1/4 NE Sec 30 T 31 R 10

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 & House
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1942 - continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 20 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 \_\_\_\_\_
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 6 inches pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1942
8. The depth of water table 100'
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" - 146'
10. The estimated amount of groundwater withdrawn each year 50,000
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 Steve Welch

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.

396968

STATE OF MONTANA  
LEGISLATIVE BRANCH

STATE OF MONTANA  
COUNTY OF HILL  
Called at 10<sup>00</sup> o'clock a.m.

1963  
COUNTY CLERK  
DEPUTY

\$ : 2.00 pd.

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

T 31<sup>N</sup> R 10E  
 14111 County RECEIVED  
 1962

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEERS  
 STATE ENGINEER

Notice of Completion of Groundwater  
 Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

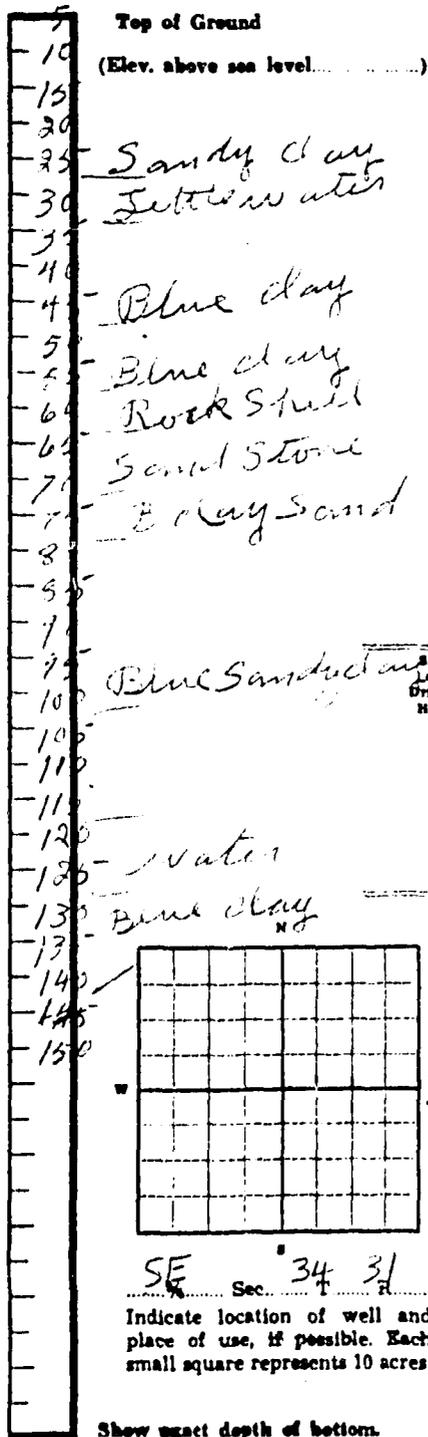
Owner: John Haley Address: Hingham Mont  
 Driller: Ed Zabel Address: Salford Mont

Date of Notice of Appropriation of Groundwater: Oct 20 1962  
 Date well started: Oct 1 1962 Date Completed: Oct 20 1962

Type of well: Drilled Equipment Used: Restone  
 (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 and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
			Kind	From (Feet)	To (Feet)
6" galvanized	10	13	1/2"	12	15
Steel casing	9	-			
6" galvanized	9	91			
5" casing	8	51			
5" casing	8	51			
5" casing	8	51			

Static Water Level for non-flowing Well: \_\_\_\_\_ feet.

Shut-in Pressure for Flowing Well: \_\_\_\_\_

Pumping Water Level: 131 feet at 3 gal. per minute.

Discharge in gal. per min. of flowing well: \_\_\_\_\_

How Tested: Bayler Length of Test: 40 minutes

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)

SE 34 31 10

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

Show exact depth of bottom.

56  
 Driller's License Number  
 Ed Zabel  
 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 School of Mines and Quadruplicate for the Appropriator.

201198

JOHN W. ALIX

TO

THE PUBLIC

NOTICE OF COMPLETION OF GR AND  
WATER APPROPRIATION BY MEANS  
OF BILL

STATE OF MONTANA )  
COUNTY OF HILL )<sup>SS.</sup>  
Filed at 2:10 o'clock P.m.

ON MAY 15 1962  
G. C. Leon

COUNTY CLERK

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

Fees \$2.00 pd.



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

TWP 31 N RGE 11 E  
COUNTY \_\_\_\_\_

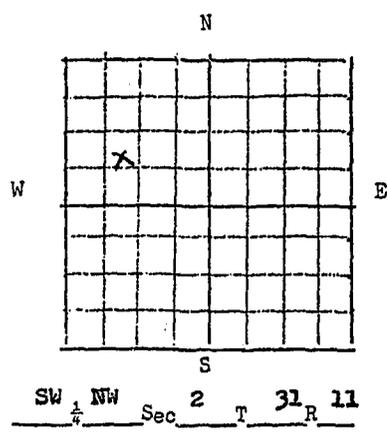
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 13 1964

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

STATE ENGINEER

1. Engebretson, Kenneth E., 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 Jan. 1, 1962 as follows:



2. The beneficial use on which the claim is based  
Stock and household

3. Date or approximate date of earliest beneficial use, and how continuous the use has been  
1950 continuous every day

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

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

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

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  
1950

8. The depth of water table  
230

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater  
8" casing iron (new)

10. The estimated amount of groundwater withdrawn each year  
40,000

11. The log of formations encountered in the drilling of each well if available  
un-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 Kenneth E. Engebretson  
Date 30 Dec 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.

396912

KENNETH B. ENGLEBRETSON

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA, ss.  
COUNTY OF HILL.  
Filed at 8 o'clock a.m.

ON DEC 23 1963  
K. B. Englebreton  
COUNTY CLERK  
DEPUTY

SEE: \$2.00 pd.

34

File No. ....

T. 31 N R. 11 E

DUPLICATE

County Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 19 1963

Declaration of Vested Groundwater Rights

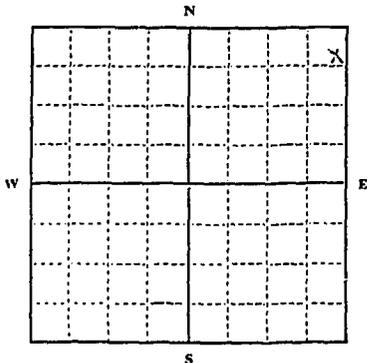
STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Mack Browlee, of Goldwood  
(Name of Appropriator) (Address) (Town)

County of Hill State of Mont

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



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

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

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

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

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

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

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

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

8. The depth of water table. 202

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 200' deep

10. The estimated amount of groundwater withdrawn each year. 265,000

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 Mack Browlee  
Date Dec 14, 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.

10292

396593

MACK BROWNIZ

TO

THE PUBLIC

DECLARATION OF VESTED GROUND  
WATER RIGHTS

STATE OF MONTANA, ) ss.  
COUNTY OF HILL )  
Filed at \_\_\_\_\_ o'clock P.M.

ON DEC 17 1963

R. E. Blom  
COUNTY CLERK

BY \_\_\_\_\_ DEPUTY

Fee: \$2.00 pd.

10

File No. ....

T 31<sup>N</sup> R 11<sup>E</sup>

DUPLICATE

County Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
MAY 13 1964

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

(Under Chapter 237, Montana Session Laws, 1961)

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

0 4 Surface soil  
4 8 sandy clay  
8 30 clay + Boulders  
30 50 Gray clay  
50 55 Gray sandy clay  
55 60 Blue clay  
60 65 sand gravel  
65 80 Blue clay

Owner: Mabel Johnson Address: Hilford Mont

Driller: Orville Jacobson Address: Kremlin Mont

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

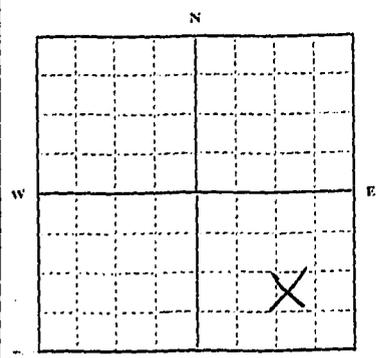
Date well started: Apr 7, 1964 Date Completed: Apr 12, 1964

Type of well: Drilled Equipment Used: Cable tools  
(dug, driven, bored or (Churn, drill, rotary or drilled) 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)
9 in.	7 in O.D. 17 lb per ft	1 ft above ground	70	Slot	36	70
Gravel packed with 1/4 per gravel						



SE 1/4 Sec. 10 T31 R11  
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: 35 feet

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

Pumping Water Level: 20 feet at 5 gal. per minute.

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

How Tested: Bailor Length of Test: 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).....

Gravel packed  
Surface to cemented

No. 42  
Driller's License Number

Orville Jacobson  
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.

38077

Doc No. 398745

MABEL JOHNSON

TO

THE PUBLIC

NOTICE OF COMPLETION OF  
GROUND-WATER APPRO. BY MEANS  
OF WELL.

STATE OF MONTANA, )  
COUNTY OF HILL ) ss.  
*Filed at 10:00 o'clock A.M.*

ON MAY 8 1964

COUNTY CLERK

DEPUTY

Fee: \$ 2.00 pd.

3-18  
700

File No. ....

T. 31 N. R. 10 E

DUPLICATE

County HILL

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 10 1963

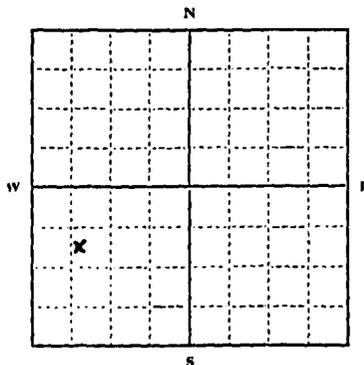
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. HOWARD O. DOLPH, of HINGHAM  
(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 Sec. 18 T. 31. R. 11.

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, AND STOCK WATER

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. APPROX. CONTINUOUS USE SINCE 1916

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 2.0 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 USED FOR IRRIGATION

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. MYERS DEEP WELL PRESSURE HEAD RODS + CYLINDER LIFT TYPE

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. APPROX. 1916 MYERS HEAD INSTALLED IN SPRING OF 1954

8. The depth of water table. APPROX. 60 FT. FROM SURFACE IN THE WELL

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 DEPTH 120 FT, 1 1/2" PIPE, CYLINDER 2"

10. The estimated amount of groundwater withdrawn each year. APPROX. 200,000 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 AVAILABLE

Signature of Owner.....

Howard O. Dolph

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located. Dec. 6, 1963

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.

396408

HOWARD O. DOLPH

TO

THE PUBLIC

DECLARATION OF VESTED GROUND  
WATER RIGHTS

STATE OF MONTANA, } ss.  
COUNTY OF HILL  
*Filed at 1:30 o'clock P.m.*

ON        DAY 1963  
R. E. Blom

COUNTY CLERK

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

Fee: \$2.00 pd.

GNL4  
FILE NO. \_\_\_\_\_

SW 1/4 25 TWP 31 N RGE 11 E  
COUNTY Hill

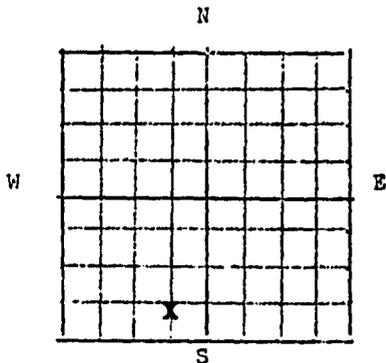
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECORDED  
JAN 1 1964

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

STATE ENGINEER

1. Helvin Tew, of Gilford,  
(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:



SW 1/4 Sec 25 T 31 R 11E

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 Watering
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1916 continuous since.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 8 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 None used for irrigation
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Deep well pump.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Began & completed in 1916.
8. The depth of water table 30 ft to water 110ft of water.
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" galvanized pipe casing well is 140ft deep.
10. The estimated amount of groundwater withdrawn each year 110,000 gals per year.
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 available.

Signature of Owner Helvin Tew

Date 31 December 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.

31205



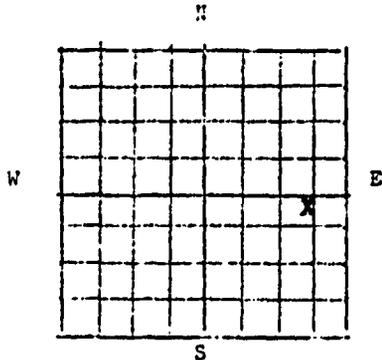
GW-4  
FILE NO. \_\_\_\_\_

25  
SE 25 TWP 31N RGE 11E  
COUNTY Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

1. Helvin Tew, of Gilford,  
(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:



SE 25 T 31 R 11E

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 Watering & Personal use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
1915 continuous since.
4. The amount of groundwater claimed (in miner's inches or gallons per minute)  
8 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
Not used for irrigation
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Deep well pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
begin & completed in 1916.
8. The depth of water table  
30 ft to X water 110ft of water.
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" galvanized pipe casing well is 140 ft deep.
10. The estimated amount of groundwater withdrawn each year  
500,000 gals per year.
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 available.

Signature of Owner \_\_\_\_\_

Date 31 December 1968

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.

397149

DECLARATION

TO

THE PUBLIC

DECLARATION OF WASTED  
GROUNDWATER RIGHTS

STATE OF MONTANA )  
COUNTY OF HILL )

Filed at 11 o'clock a.m.

NOV 1 1963

COUNTY CLERK

DEPUTY

FEES \$2.00 pd.

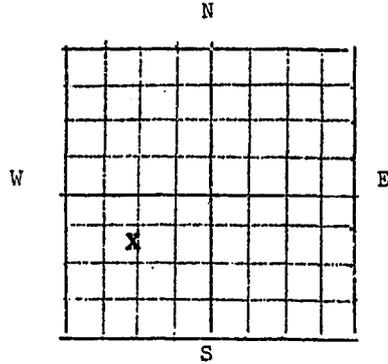
GW-4  
FILE NO. \_\_\_\_\_

TRF 31 N RGE 11 E 35  
COUNTY HILL STATE ENGINEER  
JAN 1 9 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. Melvin Tew, of Gilford,  
(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:



SW  $\frac{1}{4}$  Sec 35 T 31 R 11

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 Watering
3. Date or approximate date of earliest beneficial use; and how continuous the use has been October 1958 Continuous since
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not used for irrigation
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Deep Well pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Began & completed in October 1958
8. The depth of water table Unknown
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 200' deep 6" O. D. Steel casing
10. The estimated amount of groundwater withdrawn each year 100,000 gals per year.
11. The log of formations encountered in the drilling of each well if available I think Log of formations is on record in Hill County.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Recorded with Hill County Clerk & Recorder in 1958.

Signature of Owner Melvin Tew  
Date 31 December 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.

397150

MELVIN E. TEW

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA, ss.  
COUNTY OF HILL  
Witnessed at \_\_\_\_\_ o'clock \_\_\_\_\_ a.m.

ON ~~DEC 31~~ 1963  
*[Signature]*  
\_\_\_\_\_  
COUNTY CLERK  
\_\_\_\_\_  
DEPUTY

FEE: \$2.00 pd



File No. ....

T. 31 N R. 12 E 15

DUPLICATE

SEP 27 1966

County Hill

Billie \_\_\_\_\_ McDemott \_\_\_\_\_  
 Butcher \_\_\_\_\_ McDemott \_\_\_\_\_ STATE OF MONTANA  
 Co. \_\_\_\_\_ McDemott \_\_\_\_\_ ADMINISTRATOR OF GROUNDWATER CODE  
 Dickinson \_\_\_\_\_ Colwell \_\_\_\_\_ OFFICE OF STATE ENGINEER  
 Dickert \_\_\_\_\_

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

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

(Under Chapter 237, Montana Session Laws, 1961)

- 0 5 surface soil
- 3 10 gray sand
- 10 30 yellow sandy clay
- 30 45 yellow sand
- 45 50 yellow clay
- 50 65 blue clay
- 65 70 brown clay
- 70 74 brown and blue sand and clay
- 74 85 gray sand and silt small water

Owner Chris Heggen Jr. Address Kremlin, Mont.

Driller Orville Jacobson Address Kremlin, Mont.

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

Date well started Aug. 22, 66 Date Completed Aug. 29, 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.

Depth	Stratum	Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
						Kind Size	From (Feet)	To (Feet)
85	92 gray hard sandstone							
92	100 gray sandy clay	8 in.	5 16 in.	18 in.	150ft	70 ft.	150 ft	
100	115 gray sand and more water			above gravel				
115	135 gray clay			Gravel packed from 15 ft. to 150 ft. Cemented from 7 ft. to 15 ft. One sack cement.				
135	145 brown sandy clay some coal and brown sand, more water							
145	150 light brown clay							

Static Water Level for non-flowing Well 65 ft. from top feet.

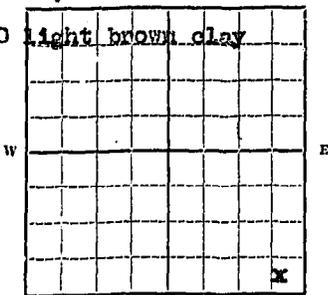
Shut-in Pressure for Flowing Well .....

Pumping Water Level 145 feet at 6 gal. per minute.

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

How Tested bailer Length of Test 2 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) .....



SE 1/4 SE Sec. 15 T. 31 N. R. 12 E.

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

Show exact depth of bottom

Driller's License Number 42

Driller's Signature Orville Jacobson

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 School of Mines and Quadruplicate for the Appropriator.

41,440

Doc.No. 407165

CHRIS HEGGEN, JR.

TO

THE PUBLIC

NOTICE OF COMPLETION OF GROUNDWATER  
BY MEANS OF WELL

STATE OF MONTANA )  
COUNTY OF HILL )  
Filed at 10:00 o'clock a.m.

ON SEP 26 1966  
R. E. BLOM

COUNTY CLERK

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

File No. ....

T. 31 N. 12 E. 24

DUPLICATE

LOG

County Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
NOV 30 1964  
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 CHRIS A. REUM Address KREMLIN, MONT.

Drill H. HINE DRILLING SERVICE Address HARRE, MONTANA

Date of Notice of appropriation of groundwater.....

Date well started OCT. 10, 1964 Date completed OCT. 24, 1964

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.

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

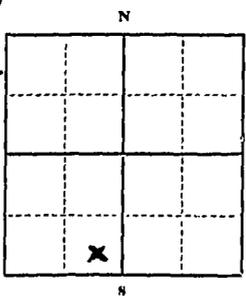
040  
3 Top + SUB SOIL  
14 YELLOWISH-BROWN CLAY  
34 SANDY BROWN CLAY  
47 BROWNISH-GREY CLAY  
63 GREY CLAY  
64 HARD BROWN SANDSTONE  
75 BROWN SANDSTONE (DRY)  
85 BLUE-GREY SHALE  
105 GREY SANDSTONE -  
WATER, APPROX 8 GPM  
124 SHALEY SANDSTONE  
126 GREY SANDSTONE -  
WATER - APPROX. 3 GPM  
134 SHALEY SANDSTONE  
140 GREY SANDSTONE -  
WATER - APPROX. 5 GPM  
145 1/2 SHALEY SANDSTONE  
150 GREY SANDSTONE -  
WATER - 2 GPM  
150 1/2 HARD SANDSTONE  
166 GREY SANDSTONE -  
WATER - APPROX 6 GPM

FORMATION FROM 85-165 FT  
CONSISTS OF A SERIES OF  
SANDSTONE + SHALEY  
SANDSTONE WITH WATER  
IN COARSER PORTIONS.  
WATER TABLE REMAINED  
CONSTANT THROUGHOUT.  
WATER IN UPPER PORTIONS  
HIGH IN IRON WITH HARD-  
NESS OF 38 GR. PER GAL.  
WATER FROM 145-166 FT  
LOW IN IRON & HAS  
HARDNESS OF 22 GR.  
PER GALLON.

166 Show exact depth of bottom.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
9"	6 1/8 I.D. 13" PER FOOT GALVANIZED	0	145 1/2	No PERFORATIONS		

CASING SET ON TOP OF SANDSTONE AT 145 1/2 FOOT LEVEL SANDSTONE FROM 145 1/2 TO 166 FT UNCASED



Static Water Level for non-flowing well ..... 8.4 .....feet.

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

Pumping Water Level... 14.3 .....feet  
at..... 7 .....gal. per minute.

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

How Tested BALER + PUMP

Length of Test 5 HOURS

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

OUT TO 9" TO 145 1/2 FT. CASING SET AT THIS LEVEL + WELL CEMENT TO SHUT OFF HARD WATER.

IN UPPER PORTION OF SANDSTONE SERIES

(Continue on reverse side)

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

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

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

46  
Driller's License Number

Robert Zinner  
Driller's Signature

38699

401345

CHRIS A. REUM

TO

THE PUBLIC

NOTICE OF COMPLETION OF GROUND-  
WATER APPRO. BY MEANS OF WELL

STATE OF MONTANA ) ss.  
COUNTY OF HILL )  
Filed at 8 o'clock a.m.

ON NOV 23 1964

COUNTY CLERK

By \_\_\_\_\_

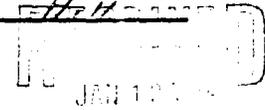
Fee: \$ 2.00 pd.

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

*Duplicate*

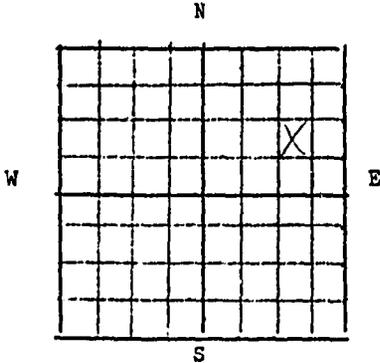
TWP 31 N RGE 12 E  
COUNTY DEWEE

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. Roy O. Rambo, of Hingham  
(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:



NE 1/4 Sec 29 T 31 R 12

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

2. The beneficial use on which the claim is based livestock and home
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1942  
continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5
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 Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater date not known of length  
the same with the well for use
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 1 1/2  
ft deep
10. The estimated amount of groundwater withdrawn each year 30,000 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 none

Signature of Owner Roy O. Rambo  
Date Dec 29 1967

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.

396991

ROY O. RAINO

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF MONTANA  
COUNTY OF *Beaumont*  
Filed at *Beaumont, Mont.*

BY DEC 8 1963

FE: \$2.00 pd.

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

NW 1/4 32

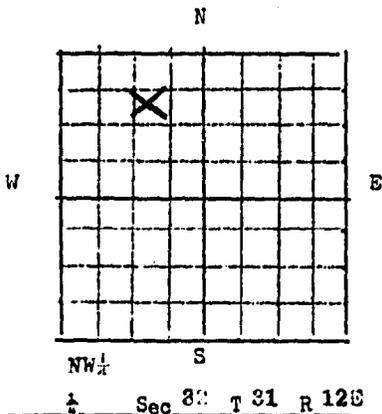
TWP 31 N RGE 12E E 32  
COUNTY \_\_\_\_\_

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. Melvin Tew, 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 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  
Stock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
Continuous since May 1961
4. The amount of groundwater claimed (in miner's inches or gallons per minute) approx  
5 gallons per minute.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
Not used for irrigation.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Deep well pump.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
May 1961 well X began & completed
8. The depth of water table 25' to water.
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" O. D. Steel casing to 76' deep. 2" inch pipe for the withdrawal of water with deep well pump.
10. The estimated amount of groundwater withdrawn each year 180,000 per year.
11. The log of formations encountered in the drilling of each well if available  
1' to 12' Sandy yellow Clay 12' to 31' Brown Shale 31 to 38' Grey Shale 38' to 40' Grey Sandstone 40' to 50' Brown Shale to 74' Grey Sandstone
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record  
Well recorded in Hill County in 1961.

Signature of Owner Melvin Tew

Date 31 December 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.

31208

397151

MELVIN TRW

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

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

\_\_\_\_\_ 1963,  
\_\_\_\_\_  
COUNTY CLERK

SEAL

FEE: 2.00 pd.

RECEIVED  
STATE ENGINEER

T. <sup>32</sup> 31N R. 12 E 32  
Hill  
County

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

X		
	1/4	

Owner Malvin Tew Address Gilford, Montana  
 Driller Keup Address Big Sandy, Montana  
 Date Started 8/1/57 Date Completed 8/5/57  
 Location: Sec. 32 T. 31 R. 12 1/4 sec. 1/4

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

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

Casing: 100 ft. to 29 ft. Type Steel Size 8"

Casing: 29 ft. to 0 ft. Type Steel Size 6"

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

Perforated or Screened: Ft. 100 to ft. 97 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations O.D. Lin<sup>ST</sup>

Static Water level, for non-flowing well: 20 feet.

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

Pumping water level 60 feet at 5 gal. per min.

How tested: Bailing

Length of test 3 times - 2 days

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

None

Malvin Tew

(over)