

31

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

NE 1/4 SEC 31 T. 37 N. R. 12 E

DUPLICATE

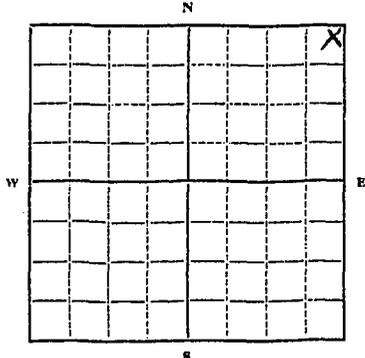
County HILL

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JUN 27 1963

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

1. SPRING COULEE SCHOOL DIST, of SIMPSON 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:



N.E. 1/4 Sec. 31 T. 37 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. SCHOOL WATER SUPPLY

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Sept - 1955

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 10 GALLON 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. TREES ON SCHOOL GROUND

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. June 2 - 1955 June 3 - 1955

8. The depth of water table. 60 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. 120 FT. 6 IN CASEING

10. The estimated amount of groundwater withdrawn each year. 15000 TO 30000

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 Edgar Morse  
Date June 7 - 1963

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

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

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

493.

394307

SPRING COULEE SCHOOL DIST. 67

TO

THE PUBLIC

DECLARATION OF VESTED GROUND  
WATER RIGHTS

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

ON JUN 24 1963

R. E. Blom  
COUNTY CLERK

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

Fee:\$2.00 pd.

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

T. 37 N. R. 12 E. 35

DUPLICATE

County Hill

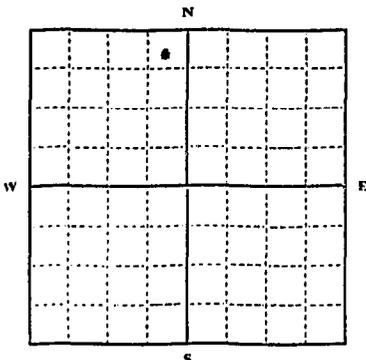
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 27 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. W. H. Bradbury of Simpson Mt. Harre  
(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:



N. 12. 1/4 Sec. 35 T. 37 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 house and livestock
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been Sept. 1954 used continually
- 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 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 pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Sept. 5th Sept 24th 1954

8. The depth of water table 128 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 in. 6 in. liner 280 ft total depth

10. The estimated amount of groundwater withdrawn each year 250,000 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 no record

Signature of Owner W. H. Bradbury  
Date 12-20-1963

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

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

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

386745

W. H. REARNEY

TO

THE PUBLIC

DEPARTMENT OF VEGETATION

MANAGEMENT

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

ON Dec 23 1963

R. E. Blom  
COUNTY CLERK

DEPUTY

Fee: \$2.00 pl.

36

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

T. 37 N. R. 12 E

DUPLICATE

County Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

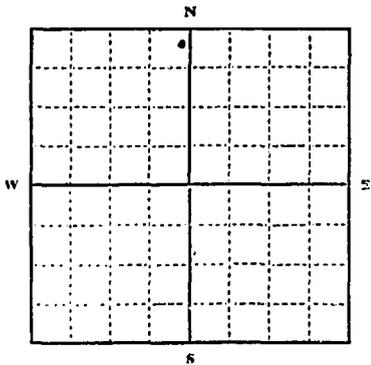
RECEIVED  
DEC 27 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. M. H. Bradbury of Simpson Pt. Havre  
(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:



N.W. 1/4 Sec. 36 T. 37 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. House and stock
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been. April 1961
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute). 15 gal. per minute
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. 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. pump

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. April 5 completed April 20th 1961
- 8. The depth of water table. 270 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. 7 in casing, 6 in burner  
4.01 ft depth
- 10. The estimated amount of groundwater withdrawn each year. 130,000 gal
- 11. The log of formations encountered in the drilling of each well if available. Blue shale, grey shale, grey sandstone, light brown shale, sand shell, trace coal.
- 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 record

Signature of Owner M. H. Bradbury  
Date 12-20-1963

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

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

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

13414

396746

R. E. FRASCHOFF

21

THE PUBLIC

DEPARTMENT OF VARIOUS SERVICES  
WATER RIGHTS

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

ON FEB 23 1963

R. E. Blom

COUNTY CLERK

DEPUTY

Fee: \$2.00 pr.



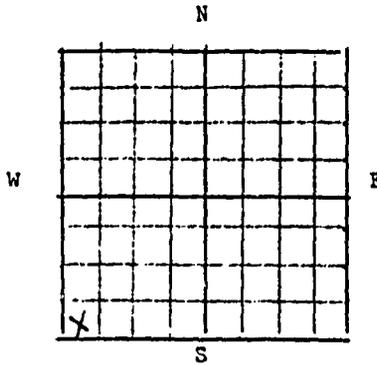
GW-4  
FILE NO. \_\_\_\_\_

TWP 37 N  
RGE 13 E  
COUNTY Blaine

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. Frank R. ..., of ...  
(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 01 & S 01 Sec 2 T 37 R 13

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 100,000 gpd.

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 ...  
Date ...

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.

392049

THE FROTH COMPANY

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

*Filed Dec 30. 1963*

*1<sup>12</sup> pm*

*[Signature]*

FEE: \$2.00 pd.

16

File No. ....

T. 37N R. 13E

DUPLICATE

County Hill

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, 1963

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

Department of State Lands

Owner and Investors Address Helena, Montana

Driller Hinkins Drilling Service Address 1173 6th St. No. Havre, Montana

Date of Notice of appropriation of groundwater

Date well started 6/2/70 Date completed 6/9/70

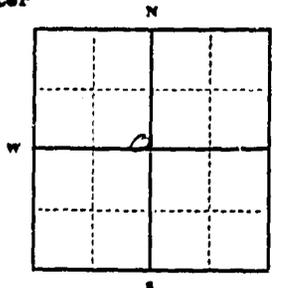
Type of well Drilled Equipment used Cable Tool Rig  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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
2	(Elev. above sea level.....)
2	Dense grey clay soil
7	Dense grey clay
9	Grey sand & clay mix
46	Soft brown clay
49	Brown sand & clay mix
54	Trace of water
54	Grey clay
60	Light brown shale
63	Brown shale
67	Brownish-grey shale
75	Brown shale
76 1/2	Sandy brown shale (firm)
79	Light brown shale
91	Grey shale
94	Blue-grey shale
96	Sandy blue-grey shale
99	Blue-grey shale
106	Dark brownish-grey shale
110	Brown shale
113	Grey shale
119	Sandy lt. grey shale (firm)
121	Sandy light brown shale
132 1/2	Grey shale
136	Sandy grey shale-trace of water
153	Medium grey shale (firm)
163	Grey shale-sand seams
168	Grey sandstone-water-approx. 3 1/2 G.P.M.
172	Grey shale
175	Lt. brown shale
175	Yield increased to 5 Gpm. after reaming hole diameter to approx. 8 1/2".
175	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)
8 1/2"	6 5/8"	4 feet	163	(No Perforations)		
	.188 wall above 13 1/2 per ft ground level			Casing set above sandstone at 163 ft. level & cemented. Sandstone left uncased.		No casing below 163 ft.



Static Water Level for non-flowing well ..... 28 feet.

Shut-in Pressure for Flowing Well Not Applicable

Pumping Water Level 162 feet at 4 1/2 gal. per minute.

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

How Tested Baler

Length of Test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Hole reamed to 8 1/2 diameter to 170 ft. Casing installed to 163 ft. level & cemented to seal off small veins at 46 to 49 ft. & 132 1/2 to 136 ft. levels. Also cemented from 46 ft. back to surface. (Continue on reverse side)

1/4 Sec. 16 T. 37N. R. 13E  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

418277  
This 16th day of June A.D. 1970 at 1:00 o'clock P.M.

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

Hinkins Drilling Service  
Driller's Signature

46588

418277

DEPARTMENT OF STATE LANDS  
AND INVESTMENTS

TO

THE PUBLIC

COMPLETION OF GROUNDWATER  
APPROPRIATION

STATE OF MONTANA, ) ss.  
COUNTY OF HILL )  
Filed at 1:00 o'clock P.M.

JUN 16 1976

R. E. BLOM

CLERK

fee: \$2.00 paid  
H. G. Bits

File No. ....

T. 37<sup>th</sup> R. 13

DUPLICATE

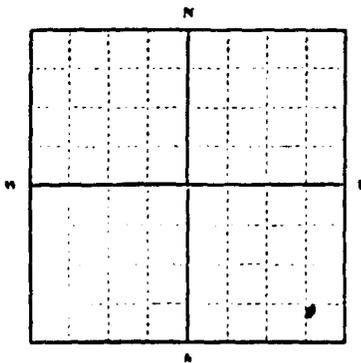
County Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECORDED  
JUL 27 1963

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

1. W. H. Bradbury (Name of Appropriator) of Livingston Rd. (Address) Harve (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. 19 T. 37 R. 13  
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 irrigation and stock
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1952 used very little
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 350 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 SE 1/4 - SE 1/4 Sec 19 - T. 37 - R. 13, W. H. Bradbury.
- 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 June 1952

8. The depth of water table 87 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 six in steel casing 110 ft deep.

10. The estimated amount of groundwater withdrawn each year 3 million 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 no record

Signature of Owner W. H. Bradbury  
Date 12-20-1963.

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

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

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

395748

W. H. WAINWRIGHT

TO

THE PUBLIC

TERMINATION OF TRUSTS CREATED  
BY DEEDS

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

ON DEC 28 1963  
R. E. Blom  
COUNTY CLERK

WITNESS MY HAND

Fee: \$2.00 pl.

T 37N R 13E

19

File No. ....

County: HALL

DUPLICATE

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)

- 0 Top of Ground
- 2 to (Elev. above sea level.....) Sandy brown soil
- 7 Silty grey clay
- 10 Grey sand & clay mix
- 28 Soft tacky brown clay
- 42 Soft tacky grey clay
- 57 Grey sand & clay mix-trace of water
- 59 Sandy grey clay
- 61 Lt. brown shale
- 63 Greenish-grey shale
- 78 Grey to sandy grey shale
- 83 Brownish-grey shale
- 86 Dark brown shale
- 110 Brown, grey & blue-grey shale
- 112 1/2 Hard sandstone shell
- 131 Blue-grey shale
- 132 1/2 Bentonite
- 140 Sandy blue-grey shale-trace water
- 152 Firm grey shale
- 163 Brownish-grey shale
- 168 Firm blue-grey shale
- 190 Sandy brownish-grey shale
- 192 Hard brown shell
- 194 Shaley grey sandstone-(trace of water)
- 201 Blue-grey shale
- 211 Grey shale-thin sand seams
- 220 Sandy grey shale
- 235 Blue-grey shale
- 253 Shaley grey sandstone-water approx. 4 GPM.
- 254 1/2 Hard sandstone rib
- 262 Grey sandstone-water approx. 4 GPM.
- 264 Sandy grey shale
- Hard shell directly below sandy grey shale at 264 ft. level.

Owner: Donald Bits Address: Box Elder, Montana

Driller: Hill-Link Drilling Service Address: Hayra, Montana

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

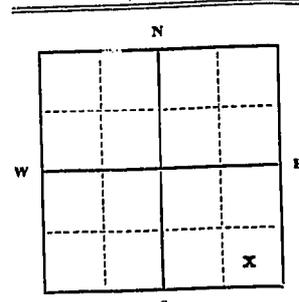
Date well started: July 6, 1970 Date completed: July 20, 1970

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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8 1/2"	6 5/8" OD .188 wall 13# per ft.	3 1/2 ft. above ground level	235			
No perforations. Casing set on top of sandstone at 235 ft. level and cemented. Sandstone from 235-262' left open. No casing below 235 ft.						



Static Water Level for non-flowing well ..... 48 feet.

Shut-in Pressure for Flowing Well Not appl.

Pumping Water Level ..... 234 feet

at 7 1/2 gal. per minute.

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

How Tested: Submersible pump

Length of Test: 8 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Hole reamed to 8 1/2" diameter to 253 ft. level. Casing installed to 235 ft. and cemented. Also cemented from 61 ft. level

SE 1/4 Sec 40 T 37N R 13E

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

back to surface.

(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).

Pumping equipment consists of a 1 HP-15 stage R 50N1-15 AC Red Jacket submersible pump (230 volt) and 234 ft. of 1" galvanized pipe. Check valve removed from pump so water will drain down in pipe.

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 J. J. J.

Driller's Signature.

47472

418988

DONALD BITZ

TO

THE PUBLIC

NOTICE OF COMPLETION OF  
GROUNDWATER APPROPRIATION

STATE OF MONTANA )  
COUNTY OF HILL ) ss.  
Filed at 11:00'clock: a.m.

ON SEP 9 1970

R. E. BLOM

COUNTY CLERK

By

*Nora Nelson*

DEPUTY

fee: \$2.00 paid

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

T 37 R 13 32

TRIPPLICATE

County HILL

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner RICHARD KNAPP Address W. HAVRE, MONTANA

Driller STEPHEN DRILLING CO. Address HAVRE, MONTANA

Date of Notice of appropriation of ground water \_\_\_\_\_

Date well started MAY 21 1970 Date Completed JUNE 10 1970

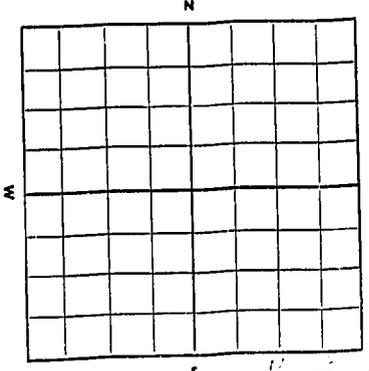
Type of well DRILLED Equipment used CABLE TOOLS  
(dug, driven, bored or Churn, drill, rotary or  
drilled) other)

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 _____)
18	light brown sand
32	dark brown sand
58	light brown sand
80	gray sand and water
115	dark gray shale
125	blue shale
136	light gray shale
143	dark brown shale
148	dark gray shale
149	rock layer
160	dark gray shale
178	blue shale
191	dark brown shale
230	gray shale
236	rock layer
260	light gray shale
265	blue shale
269	light gray shale
270	brown shale
284	hard rock layer
315	light gray shale
317	brown shale
330	sandstone water 16. P. 16
342	blue sandy shale
348	interstratified sandstone water
380	blue shale
391	interstratified sandstone water
393	blue sand shale

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 3/4	5" o.d. 15 lbs.	18" A.G.	393	5/16 5/16	342 378	347 391



Static Water Level for non-flowing well 135 feet.  
Shut-in Pressure for Flowing Well \_\_\_\_\_  
Pumping Water Level 275 feet  
at 10 gal. per minute.  
Discharge in gal. per min. of flowing well \_\_\_\_\_

How Tested builor  
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) \_\_\_\_\_

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

Show exact depth of bottom 418313

Doc. No. 418313  
Filed for record  
this 19 day of June  
A.D. 19 70, at 12:30  
o'clock PM.

15  
Driller's License Number

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 Appropriator.

46595

418313

RICHARD KNAPP

TO

THE PUBLIC

COMPLETION OF GROUNDWATER  
APPROPRIATION

STATE OF MONTANA )  
COUNTY OF HILL ) ss.

*Filed at 12:30 o'clock P.M.*

JUN 19 1970

R. E. BLOM

COUNTY CLERK

*Harold E. Day*  
DEPUTY

fee: \$2.00 ~~TYPE~~  
paid

RECEIVED  
MAY 20 1970

STATE OF MONTANA

RECEIVED  
MAY 20 1970



395222

RUSSELL WHITSON

TO

THE PUBLIC

NOTICE OF COMPLETION OF GROUND  
WATER APPROPRIATION BY MANS OF  
WELL

STATE OF MONTANA ) ss.  
COUNTY OF BILL )  
Filed at 1:15 o'clock P.M.

ON SEP 13 1963

R. E. Blom

COUNTY CLERK

By \_\_\_\_\_

DEPUTY

Fee: \$2.00 pd.

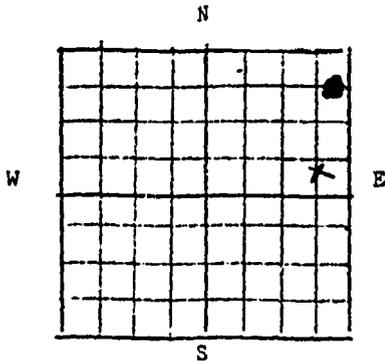
GW  
FIL. NO. \_\_\_\_\_

TWP 37N RGE 13E - 33  
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. Richard Knapp, of HAYES SIMPSON DISTRICT  
(Name of Appropriator) (Address) (Town)  
County of HILL, State of MONT  
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



SE 1/4 NE 1/4 Sec 33 T 37 R 13

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  
1930 continuous

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

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  
-4'

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  
265000 g

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 Richard Knapp

Date 12-31-63

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.

387131

RICHARD KHAPP

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF CALIFORNIA  
COUNTY OF FRESNO  
Richard L. Khapp

ON 07/19/83  
Richard L. Khapp  
County Clerk

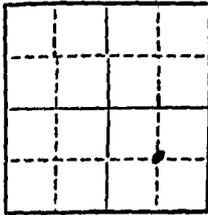
BY \_\_\_\_\_ COUNTY CLERK

FEE: \$2.00 pd.

T. 37N R. 13E 34  
 County Alle

ERNEST O. LEE, DRILLING  
 1200 3RD STREET HAVRE

WATER WELL LOG



Owner Ernest O. Lee Address 1200 3rd Street Havre  
 Driller Ernest O. Lee Address 1200 3rd Street Havre  
 Date Started Jan 21, 1966 Date Completed Jan 27, 1966  
 Location: Sec 34 T. 37N R. 13E sec.

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

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

Casing: 0 ft. to 240 ft. Type Galvanized Size 7"  
3' 2 1/2" ft. to 243 ft. Type Galvanized Size 2 1/2"  
 Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_  
 Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_  
 Perforated or Screened: Ft. 240 to ft. 243 Ft. 243 to ft. 245

Type of screen or perforations 1/2" x 1/2" x 1/2"

Static Water level, for non-flowing well: 1221 feet.

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

Pumping water level: 278 feet at 2 1/2 gal. per min.

How tested: 2 1/2

Length of test: 2 1/2

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

Was Built by Ernest Lee

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	25	Drill cuttings
25	30	Drill cuttings
30	35	Drill cuttings
35	40	Drill cuttings - 2 1/2" dia. pipe
40	45	High strength concrete
45	50	Drill cuttings
50	55	Drill cuttings
55	60	Drill cuttings
60	65	Drill cuttings
65	70	Drill cuttings
70	75	Drill cuttings
75	80	Drill cuttings
80	85	Drill cuttings
85	90	Drill cuttings
90	95	Drill cuttings
95	100	Drill cuttings
100	105	Drill cuttings
105	110	Drill cuttings
110	115	Drill cuttings
115	120	Drill cuttings
120	125	Drill cuttings
125	130	Drill cuttings
130	135	Drill cuttings
135	140	Drill cuttings
140	145	Drill cuttings
145	150	Drill cuttings
150	155	Drill cuttings
155	160	Drill cuttings
160	165	Drill cuttings
165	170	Drill cuttings
170	175	Drill cuttings
175	180	Drill cuttings
180	185	Drill cuttings
185	190	Drill cuttings
190	195	Drill cuttings
195	200	Drill cuttings

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	05	Glacial Drift
05	07	Sandstone
07	24	Brown Shale
24	35	Brown Shale--2 1/2--Trace of coal
35	41	Hard Brown Shale and Ch. M.
41	51	Grey Shale
51	62	Light Brown Shale
62	64	Shale--Trace of coal
64	74	Dark Brown Shale--1 ft.
74	76	Sandstone
76	82	Dark Brown Shale
82	86	Greenish-brown Shale
86	95	Blue Shale
95	99	Brown Shale--Trace of coal
99	109	Greenish-blue Shale
109	113	Dark Grey Shale
113	115	Grey Sandstone--soft
115	125	Blue Shale
125	130	Light Brown Shale
130	135	Light Grey Shale
135	142	Dark Grey Shale
142	172	Blue Shale
172	177	Light Grey Shale
177	203	Grey Sandstone--Water 1/2 gal. or more
203	223	Light Grey Shale





DOCUMENT NO. 384368

MRS. BERTH COX

TO

THE PUBLIC

WATER WELL LOG

STATE OF MONTANA, ss.  
COUNTY OF HILL )  
Filed at 9:30 o'clock A. m.

ON JUL 6 1961

G. C. YEON

COUNTY CLERK

by

DEPUTY

Date Started..... Date Completed.....

Location: Sec..... T..... R..... ¼ sec.....

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

Water use: Domestic  Municipal  Stock  Irrigation

Industrial  Drainage  Other:.....

Casing:..... ft. to..... ft. Type..... Size.....

Casing:..... ft. to..... ft. Type..... Size.....

Casing:..... ft. to..... ft. Type..... Size.....

Perforated or Screened: Ft..... to ft..... Ft..... to ft.....

Type of screen or perforations.....

..... feet.

GW 2

File No. ....

DUPLICATE

RECEIVED  
JUL 3 1964

Approved Stock Form—State Publishing Co., Helena, Montana 59618

T. 37 R. 15E S. 35

County Hill

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

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner ART COF Address SMITHSON MONT

Driller E. O. LEE Address 1200 3rd ST HAUIRE

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

Date well started MAY 24 61 Date Completed JUNE 7 1961

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

Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

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

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

- 0. Glacial Drift
- 26 Be. T. c. l.
- 34 Brown shale
- 35 Brown shale & coal
- 46 Brown shale
- 51 Gray shale
- 62 Light Brown shale
- 64 coal
- 74 soft brown shale
- 76 Be. T. c. l.
- 82 Dark Brown shale
- 86 Gray shale
- 85 Brown shale
- 99 Brown shale & coal
- 109 Blue shale
- 113 Dark gray shale
- 115 gray s. s. & limestone
- 125 Blue shale
- 130 light brown shale
- 135 light gray shale
- 149 dark gray shale
- 174 blue shale
- 197 light gray shale
- 203 sandstone 1/2 gal per min
- 223 gray shale
- 246 gray shale
- 248 brown shale
- 265 gray sandstone 2 1/2 gal per min
- 280 brown shale
- 290 gray sandstone 1 gal per min
- 297 light gray shale
- 300 blue gray shale
- 309 gray shale
- 314 blue shale

..... 1/4 Sec. 35 T. 37 R. 15  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

318' to Bottom

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	7" O.D. casing	0	318	1/2" x 4"	195	205
				1/2" x 4"	248	265
				1/2" x 4"	285	315

Static Water Level for non-flowing Well..... 125' feet.

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

Pumping Water Level..... 270 feet at 3 1/2 gal. per minute.

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

How Tested Open Length of Test 7 1/2 hrs

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

MONT # 21  
Driller's License Number

E. O. Lee  
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.

31093

397022

ART COX

TO

THE PUBLIC

NOTICE OF COMPLETION OF  
GROUNDWATER WITH WELL

STATE OF MONTANA  
COUNTY OF HILL  
Filed at \_\_\_\_\_

ON ~~DEC 30~~ 1963

16 Blain  
COUNTY CLERK

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

FEE: \$2.00 pd.



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

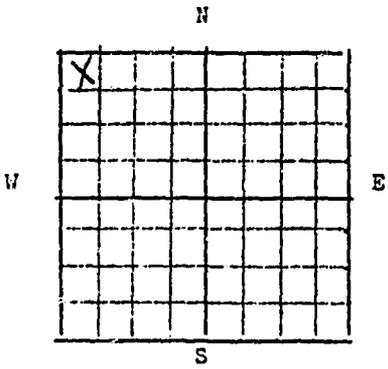
TWP 37 N RGE 14 E  
COUNTY Blaine

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 1 1965

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1963)

1. D. B. ..., of Chinook  
(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:



NW 1/4 NW Sec 6 T 37 R 14

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 Feed
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been approximately 1910
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 2 gal per min
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof \_\_\_\_\_
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal hand drill

- 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 about 50 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 100 ft hand drill
- 10. The estimated amount of groundwater withdrawn each year 10000 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 D. B. ...  
Date 12-30-65

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.

397048

THE BROWN COMPANY

TO

THE PUBLIC

DECLARATION OF VISITED  
GROUNDWATER RIGHTS

Filed Dec 30, 1963

1<sup>st</sup> floor

*[Signature]*

FEE: \$2.00 pd.

File No. ....

T. 37 N. R. 14 E.

DUPLICATE

County: **HILL**  
JAN 19 1963

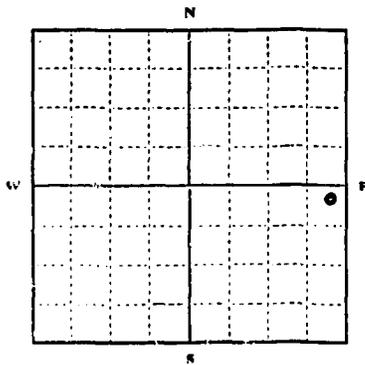
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Dan Sureau, of 1201-wash. ave. Havre  
(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:



N.E. 1/4 Sec. 13 T. 37 R. 14

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

- 2. The beneficial use on which the claim is based  
for Radiator use
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
1954 20 gallons a year
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) not known
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
NONE
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Rope & bucket
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
not known
- 8. The depth of water table 16 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  
NONE
- 10. The estimated amount of groundwater withdrawn each year 20 gallons
- 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  
NONE

Signature of Owner Dan Sureau  
Date 12-28-63

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.

396913

LAW SUIT

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

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

BY \_\_\_\_\_ 1963

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

DEPUTY

FEES: 2.00 pd.



391824

GERALD RICHARDSON

TO

THE PUBLIC

DECLARATION OF VESTED GR UND  
WATER RIGHTS

2:30 P

G. C. Yeon

Fee: \$2.00 pd.

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

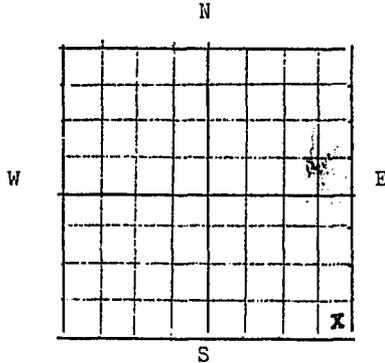
TWP 37 RGE 14 EMM  
COUNTY Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED

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

1. Gerald Richardson, of Post Office Box 309 Havre  
(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.E.  $\frac{1}{4}$  of Sec 20 T 37 R 14

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 Household
3. Date or approximate date of earliest beneficial use; and how continuous the use has been since 1914 and it is still used for the same.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) about one gallon 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 Lawn and trees
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pressure system and lift pump.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater summer of 1914.
8. The depth of water table 25 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 Round aug well 5ft in diameter.
10. The estimated amount of groundwater withdrawn each year 10000
11. The log of formations encountered in the drilling of each well if available About twelve feet of clay and the rest is shale.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Have nothing more.

Signature of Owner Gerald Richardson

Date Dec. 28, 1962

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.

391822

GERALD RICHARDSON

TO

THE PUBLIC

DECLARATION OF VESTED GROUND  
WATER RIGHTS

STATE OF MONTANA, ss.  
COUNTY OF HILL  
Filed at 2:30 o'clock P.M.

ON DEC 20 1962

G. C. Yeon

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

(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 JOSEPH H. HEAVEY JR.

Address NORTH HAURE

MONTANA

Date well started APRIL 19, 1973

completed APRIL 27, 1973

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

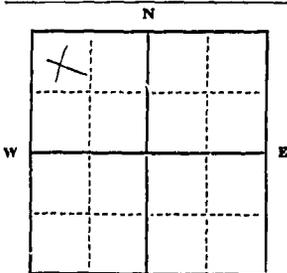
Industrial  Drainage  Other \* Garden/Lawn

\*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 2,000,000 GALLONS

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
<u>6 5/8"</u>	<u>6 7/8" O.D. (180 GAL) 13 1/2" PEA FOOT BLACK STEEL</u>	<u>1 FOOT ABOVE GROUND LEVEL</u>	<u>158</u>	<u>(NO PERFORATIONS)</u>		
				<u>WATER FLOWING IN THRU BOTTOM OF DRIVE SHAFT AT 158 FOOT LEVEL</u>		



Pressure of Flowing Well  
Static water level 15 PSI ft.\*  
Pumping water level Flowing ft.\*  
at 18 gallons per minute,  
measured 18 hours after pumping  
began.

\*Measured from ground level.  
Well developed by NATURAL FLOW  
for 18 hours.

Power NONE Pump NONE HP

Remarks: (Gravel packing, cementing, packers, type of shutoff)  
DIAMETER TUBING RUN DOWN ALONG SIDE OF CASING TO 80 FOOT LEVEL. 35 SACKS OF CEMENT SLUR PUMPED DOWN INSIDE OF TUBING WITH SOME CEMENT SHOWING UP INSIDE OF CASING INDICATING THAT CEMENT WENT ALL THE WAY DOWN TO BOTTOM AT 158 FT. CEMENTED SOLID TO SURFACE.

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

Driller's Signature Robert Lewis Hill Drilling Service

Driller's Address 1173 6th St No. Phone 265-4210

HAURE, MONTANA 59501 LICENSE NO. 46

27N-15E  
County HILL

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
<u>0</u>	<u>2</u>	<u>SANDY SOIL</u>
<u>6</u>		<u>BROWN SAND + SILT - VERY LITTLE CLAY</u>
<u>18</u>		<u>SANDY BROWN CLAY</u>
<u>20</u>		<u>SOFT BROWN CLAY</u>
<u>21</u>		<u>BROWN SAND - SOME GRAVEL - WATER</u>
<u>26</u>		<u>SOFT SANDY GREY CLAY</u>
<u>34</u>		<u>GRAVELLY GREY CLAY - SMALL BOULDERS</u>
<u>56</u>		<u>SAND + GRAVEL - SHOW OF WATER</u>
<u>63</u>		<u>SANDY GREY CLAY</u>
<u>68</u>		<u>RUNNY SILT + SAND - HEAVING UP HOLE</u>
<u>74</u>		<u>SANDY GREY CLAY</u>
<u>82</u>		<u>GREY CLAY</u>
<u>157 1/2</u>		<u>PREDOMINATELY GRAVELLY + SANDY GREY CLAY - OCCASIONAL SMALL BOULDER. NO WATER</u>
<u>159 1/2</u>		<u>SAND + GRAVEL - LADEN WITH FLOAT (EAL + COAL FLAKES)</u>
		<u>WATER - FLOWING OVER TOP OF CASING IMMEDIATELY AT APPROX. 15 GPM</u>
		<u>NOTES: CEMENTING OPERATION PERFORMED BY HULLBURTON SERVICES</u>
		<u>DIAMETER TUBING RUN DOWN ALONG SIDE OF CASING TO 80 FOOT LEVEL. 35 SACKS OF CEMENT SLUR PUMPED DOWN INSIDE OF TUBING WITH SOME CEMENT SHOWING UP INSIDE OF CASING INDICATING THAT CEMENT WENT ALL THE WAY DOWN TO BOTTOM AT 158 FT. CEMENTED SOLID TO SURFACE.</u>
		<u>WELL SHUT OFF UNTIL CEMENT SET. OPENED TO CHECK FOR YIELD OF 44 GPM. CLOSED DOWN AGAIN TO CHECK PRESSURE AT 15 PSI</u>
		<u>WELL COMPLETED</u>

158 Show exact depth of bottom

53,362

428096

JOSEPH H. HEAVEY, JR.

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA } SS  
COUNTY OF HILL }  
Filed at 1:30 o'clock P M

ON JUN 4 1973

R. E. Blom

COUNTY CLERK  
BY Dante E. [Signature]  
DEPUTY

Fee: \$2.00 pd.

INDEXED

Form No. 18  
8-60

T. 37 R. 15 E  
County Hill

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

*Sec. 1, 37, 15 E*


Owner Joe H. Heavey Sr Address Have Hunt (Box 263)  
 Driller R. M. Black Address Van Chirook  
 Date Started 4-4-1956 Date Completed 4-8-1956  
 Location: Sec. 1 T. 37 R. 15 E  $\frac{1}{4}$  sec. \_\_\_\_\_

Type of well Drilled Equipment used \_\_\_\_\_  
(aug, driven, bored, or drilled) (churn, drill, rotary, other)

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

Casing: 158 ft. to \_\_\_\_\_ ft. Type Black Pipe Size 4 in.

Casing: 158 ft. to \_\_\_\_\_ ft. Type Galvanized Size 1 3/4

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

Perforated or Screened: Ft. 10 to ft. 158. Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations Holes in 4 in casing 4 in.

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

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

Pumping water level 78 feet at 10 gal. per min. \_\_\_\_\_

How tested: \_\_\_\_\_

Length of test \_\_\_\_\_

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

2 ft Gravel Pack  
Joe H Heavey  
 (over)





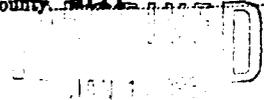
File No. \_\_\_\_\_

T. 37 N R. 15 E

DUPLICATE

County Hill

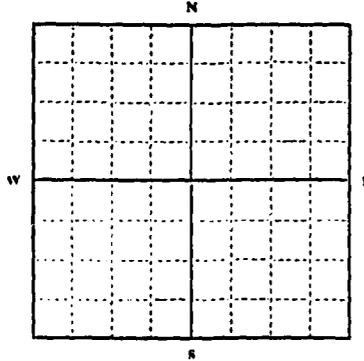
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER



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

1. Margaret Turner Clack Trusts of Box 71 Havre  
(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 NW Sec 23 T. 37 R. 15

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...  
1945 and continuously since then.

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal...  
Mechanical pump located on SE 1/4 NW of Section 23, Township 37 North, Range 15 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...  
Commenced and completed in 1945.

8. The depth of water table...  
Static head 43 feet from surface.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater...  
Well drilled to 165 feet with 145 feet of 4 inch I.D. casing.

10. The estimated amount of groundwater withdrawn each year...  
1,000,000 gallons

11. The log of formations encountered in the drilling of each well if available...  
See Attached Exhibit "A"

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

MARGARET TURNER CLACK TRUSTS

Signature of Owner By [Signature]  
Agent

Date December 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.

31263

NAME Ed. Cond. Clark Signal Butte Ranch DATE DRILLED 1945

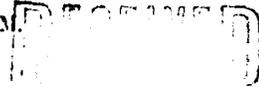
LOCATION \_\_\_\_\_

**Log of Well**

From	To	Thickness	Formation
0	35	35	Glacial Till
35	53	18	Blue Clay
53	70	17	Clay sand Gravel (a little water)
70	122	52	Dark grey shale (a little water)
122	135	13	Solid Dark grey shale
135	140	5	Soft Sandstone 10-12 P.M.
140	150	10	Brown Shale
150	165	15	Dark grey shale

STATIC HEAD 40-43 FEET FROM SURFACE

DRAW DOWN TO 110 FEET FROM SURFACE

AT 7 P.M. 

STATE ENGINEER

**Casing Record**

Kind	Size	From Feet	To Feet
STD Pipe	4" I.D.		145

**Remarks:**

Canvas packer set above  
water stratum casing perforated  
at 135'-140'  
Hole re-logged back to 145'  
Base of Bear paw 122?

EXHIBIT "A"

397212

MARGHERIT DI NERI CLOCK TRUSTS

TO

THE PUBLIC

DECLARATION OF VESTED  
GROUNDWATER RIGHTS

STATE OF CALIFORNIA  
COUNTY OF ...  
*attested at ...*

BY

\_\_\_\_\_

\_\_\_\_\_

FEE: \$2.00 pd.



RECEIVED

3711-16E  
County HILL 21

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD  
DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION  
**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 JOHANNA E. HANSON  
Address NORTH HAURE MONTANA  
Date well started 11/28/69  
completed 12/5/69

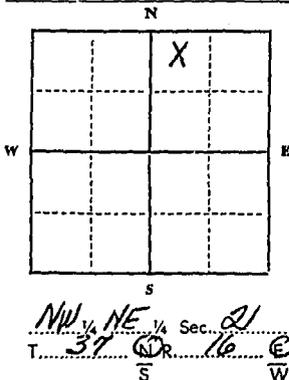
For Administrator's Use
File <u>493229</u>
Date <u>Feb. 23, 1972</u> 10:15 a.m.
GW <u>1</u>

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 (Feet)	To (Feet)	PERFORATIONS	
				Kind Size	From (Feet) To (Feet)
<u>7</u>	<u>6 5/8" O.D. (1.88 WALL) 13 # PER FOOT</u>	<u>2 FEET ABOVE GROUND</u>	<u>165</u>	<u>(NO PERFORATIONS) WATER COMING IN TANK BOTTOM OF DRIVE SHOE AT 165 FOOT LEVEL</u>	



Static water level 20 ft.\*  
Pumping water level 23 ft.\*  
at 15 gallons per minute,  
measured 8 minutes after pumping began.  
\*Measured from ground level.  
Well developed by CALER & PUMP  
for 8 hours.  
Power Gas Motor Pump 3 HP  
Remarks: (Gravel packing, cementing, packers, type of shutoff) ANNULAR SPACE AROUND OUTSIDE OF CASING FILLED WITH DRILLING MUD

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

Driller's Signature Robert Brain HI-LINE DRILLING SERVICE  
Driller's Address 1193 6TH ST No. HAURE, MONTANA 59501 PHONE 265-4200 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 (Feet)	To (Feet)
<u>0</u>	<u>3</u> SANDY SOIL
<u>13</u>	<u>SANDY BROWN CLAY</u>
<u>26</u>	<u>YELLOWISH-BROWN CLAY</u>
<u>31</u>	<u>BROWN CLAY - GRAVEL DISPERSED THROUGHOUT</u>
<u>38</u>	<u>BROWNISH-GREY CLAY</u>
<u>52</u>	<u>GREY CLAY</u>
<u>58</u>	<u>SANDY GREY CLAY</u>
<u>84</u>	<u>GREY CLAY - PEBBLES</u>
<u>99</u>	<u>GREY CLAY - OCCASIONAL SMALL BOULDERS</u>
<u>110</u>	<u>GREY CLAY</u>
<u>113</u>	<u>SANDY GREY CLAY</u>
<u>150</u>	<u>GREY CLAY - SOME SMALL GRAVEL DISPERSED THROUGHOUT</u>
<u>163 1/2</u>	<u>SANDY GREY CLAY</u>
<u>164 1/2</u>	<u>GREY SAND - GRAVEL - SMALL TO 1/4" DIAMETER</u>
<u>165</u>	<u>GRAVEL - PEA SIZE TO 1 1/2" DIAMETER - FINE TO COARSE SAND - WATER - EXCEEDING 25 GPM WITH LITTLE DRAWDOWN</u>
<u>NOTE: HOLE WAS COMPLETELY DRY FROM GROUND LEVEL TO SAND + GRAVEL FORMATION AT 163 1/2 FT. NO CASING INSTALLED UNTIL AFTER HOLE WAS TOTALLY DRILLED. THIS IS RATHER UNUSUAL WHEN DRILLING IN A CHANNEL OF THIS DEPTH</u>	
<u>RESULTS OF 3-HOUR PUMPING TEST - 25 GPM WITH 34 FT. PUMPING LEVEL FOR DRAWDOWN OF 3 FT.</u>	

165 Show exact depth of bottom  
49,923





4

File No. ....

T. 37<sup>N</sup> 17<sup>E</sup>

DUPLICATE

County Hill

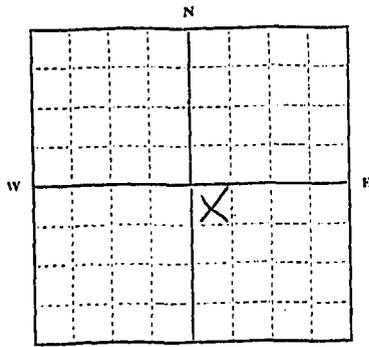
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 13 1964

### Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater do not know.  
Owner Clarence Purley Address Kresslein, Mont.  
Contractor (if any) Melvin Van Heschel  
Address of Contractor Leroy, Montana  
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. season

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. stock water used all year.

N 1/4 SE Sec. 4 T. 37 R. 17  
Indicate point of appropriation and place of use, if possible.

Signature of Owner Clarence Purley

Date Dec 19, 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.

396878

CLARENCE FORSLY

TO

THE PUBLIC

COMPLETION OF GROUNDWATER  
WITHOUT WELL

STATE OF MONTANA  
COUNTY OF HILL  
Filed at Hill, Montana

27 1967  
*Clarence Forsly*  
COUNTY CLERK

Fees \$2.00 pd.

8

File No. ....

T. 37N 17E

DUPLICATE

County Stillwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

JAN 13 1964

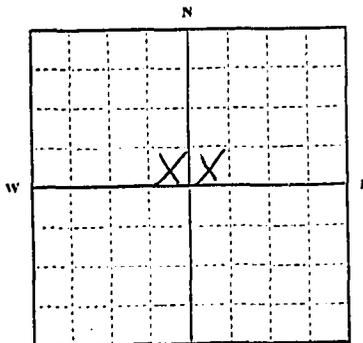
STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater do not know  
Owner Clarence Purdie address Kremlo, Mont  
Contractor (if any) do not know  
Address of Contractor do not know  
Date Started do not know Date Completed do not know

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



SENE + SUNE  
1/4 Sec. 8 T37R17  
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. stock water used all year.

Signature of Owner Clarence Purdie  
Date Dec 19, 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.

30973

396877

CLARENCE POLSKY

TO

THE PUBLIC

COMPLETION OF GROUNDWATER  
WITHOUT WELL

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

APR 27 1963

[Signature]  
COUNTY CLERK

DEPUTY

Fee \$2.00 pd.

File No. ....

T. 37<sup>N</sup> R. 17<sup>E</sup>

DUPLICATE

County Hill

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 13 1964

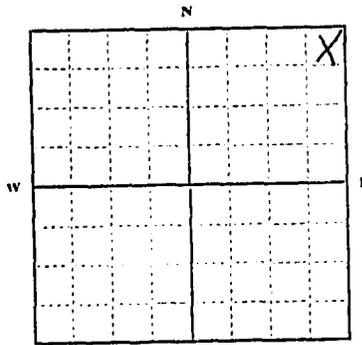
Notice of Completion of Groundwater Appropriation  
Without Well

STATE ENGINEER

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater... do not know  
Owner... Clarence Purley address... Humboldt, Mont.  
Contractor (if any) ... do not know  
Address of Contractor ... do not know  
Date Started... do not know Date Completed... do not know

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



1/4 Sec. 8, T. 37 N. R. 17 E.

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... stock

water. Used all year.

Signature of Owner... Clarence Purley

Date... Dec 19 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.

396880

CLARENCE PURSLEY

TO

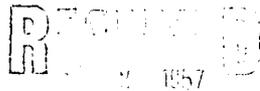
THE PUBLIC

COMPLETION OF GROUNDWATER  
WITHOUT WELL

STATE OF MICHIGAN  
DEPARTMENT OF HEALTH  
DIVISION OF WATER CONTROL  
LANSING, MICHIGAN

*G. Blom*  
REGISTERED PROFESSIONAL ENGINEER  
NO. 11111

FEE: \$ 2.00 pd.



T. 37 R. 17  
County Hill

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG


Owner Lloyd D. BEATTY Address Home Mont

Driller R. P. ... Address Home Mont

Date Started ... Date Completed 1949

Location: Sec. 11-17 T. 37 R. 17 1/4 sec. 11-17

Type of well ... Equipment used ...

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

Casing: ... ft. to ... ft. Type ... Size ...

Casing: ... ft. to ... ft. Type ... Size ...

Casing: ... ft. to ... ft. Type ... Size ...

Perforated or Screened: Ft. ... to ft. ... Ft. ... to ft. ...

Type of screen or perforations ...

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

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

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

How tested: ...

Length of test ...

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

...

...

...

...

...

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	72	9 in. coal. Tail Buff or Brown
72	96	Blue Clay (Finger of Gullies (SS'))
96	161	Dark Gray shale (top of corals (w/ 161'))
161	215	Dark Gray shale
215	233	Dark Gray sandy shale in soft condition & g. 2222 water
233	253	Light Gray sandy shale
253	260	Hard shell or shell in concentration
260	273	Light Gray sandy shale
273	297	Dark Gray shale
297	323	Light Gray sandy shale
323	328	Hard shell or shell in concentration
328	339	Light Gray sandy shale
339	366	Brown shale
366	385	coal and coal Brown
385	410	Gray shale
410	442	Brown Gray shale
442	451	Brown Gray sandy shale
451	471	Light Gray shale
471	477	Gray shale
477	512	Brown Gray shale
512	516	Light Gray shale
516	535	Brown Gray shale
535	551	Gray sandstone. Water
		W. P. M. C. P. L. Co. S. W. Registration Office 1913

File No.....

T. 37 N 17 E

DUPLICATE

County Hill

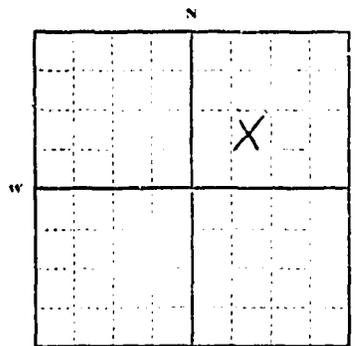
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

JAN 13 1964

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater do not know  
Owner Clarence Pursley Address Kremlo, Mont.  
Contractor (if any) do not know  
Address of Contractor do not know  
Date Started do not know Date Completed do not know



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

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. stock water used all year.

S. 1/4, 11E Sec. 21, T. 37 N. 17 E.  
Indicate point of appropriation and place of use, if possible.

Signature of Owner Clarence Pursley  
Date Dec 19 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.