

1280

217181

I received and filed this instrument for  
record on the 4th day of Feb 1964  
at 2:22 o'clock P. M., permanent files  
of Missoula County, State of Montana  
Witness my hand:  
MARTIN S. BEHNER, County Recorder  
By William C. Parker Deputy  
Fee \$ 2.00 Paid

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

MONTANA STATE BOARD OF HEALTH  
Division of Environmental Sanitation  
Helena, Montana

RECEIVED  
FEB 17 1964

WELL DRILLER'S REPORT

Driller's Registration No. **STATE ENGINEER**



0 to 6 Pit  
6' to 39' gravel and boulder in clay (a little water at 38')  
39' to 43' gravel and clay  
43' to 57' tight clay and gravel  
57' to 63' clay and gravel  
Started in water at 63'  
63' to 69' boulders and gravel with water  
69' to 75' Gravel and water with a little clay

Driller: **Glenn Capp 705 Alder** Address: **Missoula Mont.**  
Owner of Well: **H.J. O'Laughlin**  
Exact Location of Well: **Battleaxe - 5 miles from Missoula**  
Nearest Post Office: **Missoula, Mont** County: **Missoula**  
Water to be Used for: **Domestic**  
Drilling Begun: **June 16, 1960** Well Finished: **June 24, 1960**

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.

Casing Record

Size of Pipe	Kind and Weight of Material Used	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" L.S.	19 lbs to foot seamless	1' below ground level	73'	none		

Describe the type of joints in casing: **Welded**

Describe any screens used: **none**

Static water level: **38' from ground level**

Capacity of Well: **20 G.P.M. with 7' drawdown**  
(In Gallons or Barrels)

How Determined: **Estimate**  
(Pump, Meter, Well, Etc)

Signed: **Glenn Capp**

Date: **June 27, 1960**

DUPLICATE - TO BE GIVEN TO CUSTOMER

Show exact depth of casing

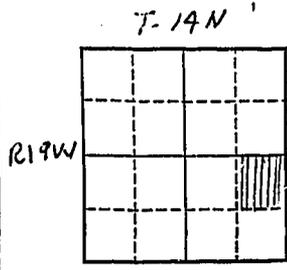
34964

RECEIVED  
AUG 8 1960  
STATE ENGINEER

T. \_\_\_\_\_ R. \_\_\_\_\_  
County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG



Owner B. J. O'Loughlin Address 539 Daly Missoula, Mont  
 Driller Glenn Camp, 705 Alder Address Missoula, Montana  
 Date Started June 15, 1960 Date Completed June 24, 1960  
 Location: Sec. 35 T. 14N R. 19W 1/4 sec. SE

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

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

Casing: 1' above ground level 73' ft. to \_\_\_\_\_ ft. Type Seamless 19 lbs to foot 6" I.D. 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: 90' from ground level 45' \_\_\_\_\_ feet.  
 Shut-in pressure, for flowing well: \_\_\_\_\_ lb./sq. in. on: \_\_\_\_\_ (date)  
 Pumping water level: 83 52' feet at 20 gal. per min.  
 How tested: Bailer  
 Length of test: 4 hours

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)  
Put in exact location of property and file this with the County Clerk and Recorder  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



File No. ....

T. 14 N. R. 19 W. S. 3

DUPLICATE

County: Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER DEC 11 1963

RECEIVED

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

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

(Under Chapter 237, Montana Session Laws, 1961)

0 to 3' Clay  
3' to 5' gravel & clay  
5' to 61' Boulders,  
gravel & clay  
61' to 69' Water, boulders,  
gravel & clay  
69' to 70' Boulders & water

Owner: Howard E. Reinhardt Address: Rattlesnake

Driller: Glenn Camp 705 Alder Address: Missoula, Montana

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

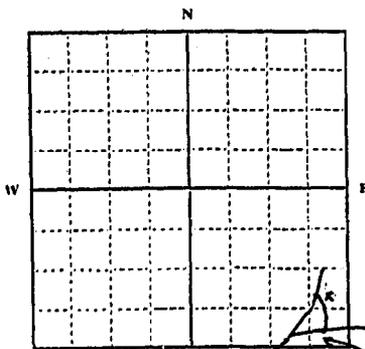
Date well started: 10/17/63 Date Completed: 10/24/63

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

Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" I.D. 18.37 lbs to foot	6" above G.L.	to 69'-6"			



SE 1/4 Sec. 35 T. 14. R. 19  
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: 54 feet.

Shut-in Pressure for Flowing Well: Not applicable

Pumping Water Level: 54 feet at 45 gal. per minute.

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

How Tested: Test pump Length of Test: 1 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

1/2 acres irrigated, if used for irrigation)

License # 7

Driller's License Number

Glenn Camp  
Driller's Signature

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

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

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

214043

I received and filed this instrument for  
 record on the 18 day of Dec 1962  
 at 11:00 o'clock A.M. pursuant to the  
 of Missoula County, State of Montana  
 Witness my hand:  
 MARTIN S. BRINEN, County Recorder  
 By Martin S. Brinen Deputy  
 Fee \$ 2.00 Paid

RECORDED  
 MISSOULA

MISSOULA COUNTY CLERK  
 MISSOULA, MONTANA



2452

332126

I received and filed this instrument for  
record on the 17 day of May, 1973  
at 12:15 o'clock P. M., permanent files  
of Missoula County, State of Montana  
Witness my hand:  
Dorothy L. Head, County Recorder  
By M. M. Conroy, Deputy  
Fee \$ 2.00 Paid ch



2370

324351

I received and filed this instrument and  
record on the 2 day of APRIL 1922  
at 11:45 o'clock A.M. permanent file  
of Missoula County, State of Montana  
Witness my hand.  
Thomas R. Crowe, County Recorder  
By W. H. [unclear] Deputy  
Fee \$ 2.00 Cash Paid

GW 2

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

DUPLICATE

Approved Stock Form—State Publishing Co., Helena, Montana—4193

**RECEIVED**

MAY 20 1964

14<sup>th</sup> R 19<sup>th</sup> 35<sup>th</sup>

County Missoula

**RECEIVED**

MAY 4 1964

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

0' to 27' Clay & broken Rock

27' to 33' Boulders & clay

33' to 49' Boulders & gravel trace of water

49' to 53' Clay & gravel

53' to 70' Gravel & Loose boulder & water

70' to 77' Red rock

Show exact depth of bottom.

**Notice of Completion of Groundwater Appropriation by Means of Well**  
(Under Chapter 237, Montana Session Laws, 1961)

Owner John Wehrenberg Address E. Rattlesnake

Driller Glen Camp 705 Alder Address Missoula, Mont

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

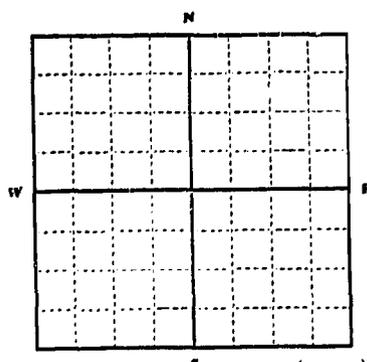
Date well started 4/13/64 Date Completed 4/23/64

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

Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
6"	6" I.B. 18.97 #	5" above G.L.	to 70'-3"			



None Sec 25 T. 14N R. 12W  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 37' feet.

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

Pumping Water Level 55 feet at 10 gal. per minute.

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

How Tested Pump Length of Test 1 hour

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).....  
none

License # 7  
Driller's License Number  
Glen Camp  
Driller's Signature

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

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

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

35641

2406

220839

*Copy*

I received and filed this instrument by  
 record on the *29th* day of *April* 19*61*  
 at *4:30* o'clock *P.*M., permanent files  
 of *Missoula County, State of Montana*  
 Witness my hand:  
**MARTIN S. BEYER, County Recorder**  
 By *Alma Beyer* Deputy  
 Fee \$ *1.00* Paid

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

DEC 1 1970

DRILLER'S LOG

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

**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL**

Developed after January 1, 1962

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

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

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

Owner Helen C. and H. B. Williamson

Address 7015 Siesta Drive

Missoula, Montana

Date well started 7/16/70

completed 7/23/70

For Administrator's Use	
File	<u>297215</u>
	<u>November 27, 1970</u>
	<u>1:06 P.M.</u>
GW 1	

Type of well Drilled

Equipment used Air Rotary & Cable tools

Water Use: Domestic  Municipal  Stock  Irrigation

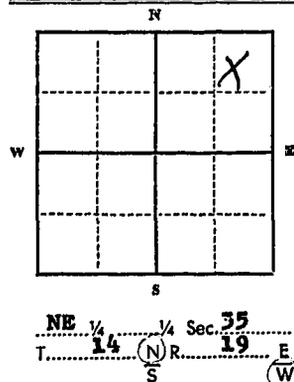
Industrial  Drainage  Other \* Garden/Lawn

\*Describe \_\_\_\_\_

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition). Approximately 1 acre

ESTIMATED ANNUAL WITHDRAWAL Unknown

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8" OD x 1/4"	+2	105	N	O	N E



Static water level ..... 44 ft.\*  
Pumping water level ..... 84 ft.\*  
at ..... 104 gallons per minute,  
measured ..... 4 hours after pumping began.  
\*Measured from ground level.  
Well developed by Bailor  
for ..... 4 hours.  
Power..... Pump..... HP  
Remarks: (Gravel packing, cementing, packers, type of shut off) All water entering well from cracks and seams in the rock below 108 feet.

Top of Ground		Approx. (Elev. above sea level)
From (Feet)	To (Feet)	
0	54	3648
54	102	Old drilled well.
102	108	Sand, gravel, cobblestones and boulders.
		Sand, gravel, cobblestones mixed in tan clay.
108	123	Tan and gray rock.
123	131	Seeps of water.
		Light gray rock, Water
131	141	Gray and yellow rock, Water.
141	142	Hard gray rock.

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

Driller's Signature William B. Colman

Driller's Address 2500 Reserve Street

Missoula, Montana LICENSE NO. 52

142 ft. Show exact depth of bottom water rises in well 44 feet to surface.

47826



File No. ....

T. 14 R. 19W 35

DUPLICATE

County Missoula  
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER  
RECEIVED  
JAN 8 1966  
STATE ENGINEER

### 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 to 1' Top soil  
1' to 4' Clay & gravel  
4' to 57' Clay, gravel  
and boulders  
57' to 72' Loose Clay  
and Gravel  
72' to 74' Gravel, clay  
boulders & water.

Well up the Rattlesnake  
Owner Jack Winters Address 415 Patty Ct. Drive  
John R. Winters  
Driller Glenn Camp Address Missoula

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

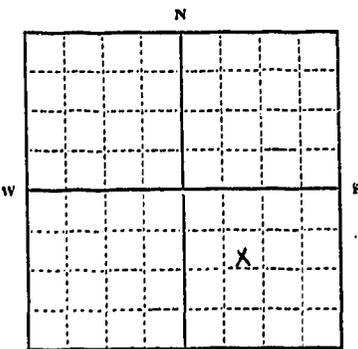
Date well started 12/4/64 Date Completed 12/21/64

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

Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" I.D. 18.97 # to foot	18" above G.L.	to 71'-8"	None		



SE 1/4 Sec. 35 T. 14 R. 19  
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 52 feet.

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

Pumping Water Level 53 feet at 15 gal. per minute.

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

How Tested Test pump Length of Test 1 hour

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).....

Licence # 7  
Driller's License Number

Glenn Camp  
Driller's Signature

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

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

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

1468

23/224

I received and filed this instrument for  
 record on the 5 day of Jan, 1965  
 at 1:30 o'clock P.M., permanent files  
 of Missoula County, State of Montana  
 Witness my hand:  
 Vergene R. Cause, County Recorder  
 By Edith N. Smith, Deputy  
 Fee \$ 2.00 Paid cash

Franklin Westland  
 Register Recorder for Howard Hill

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

T 14 R 19 36

DUPLICATE

County Missoula

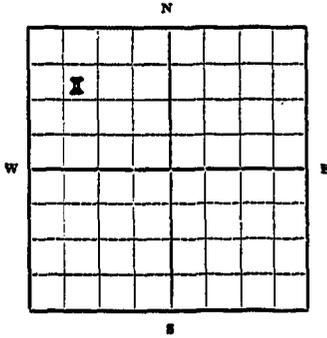
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 26 1963  
STATE ENGINEER

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

1. Mills Folsom of Rte. 1 Missoula, Montana  
(Name of Appropriator) (Address) (Town)

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



Sec. 36, T14N R19W

Indicate point of appropriation and place of use, if possible. Each small square represents 1/4 acres.

2. The beneficial use on which the claim is based primarily domestic use - some irrigation  
5 to 6 homes

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Have been using the well since purchase of the land in May, 1952. Well drilled by previous owner in 1937 or 1938.

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof irrigation is confined to yards around the various homes.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal well is located adjacent to reservoir as shown, water is pumped with a 2 HP, deep well turbine.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater well drilled by previous owner in 1937 or 1938.

8. The depth of water table static level 42', well depth 95' 6" casing.

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 size 6" 2 HP deep well turbine water pumped into reservoir

10. The estimated amount of groundwater withdrawn each year steady flow of 20 GPM during winter.

11. The log of formations encountered in the drilling of each well if available not available, bottom is in rock

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 land purchased in May, 1952 by Irvin M. Folsom and Helen P. Folsom from Edward Ray. (Irvin M. Folsom and Mills Folsom are the same.)

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

Date \_\_\_\_\_

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

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

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

12306

486

214733

I received and filed this instrument  
record on the 23 day of Aug 1963  
at 2:30 o'clock P.M. permanent files  
of Missoula County, State of Montana  
Witness my hand:  
MARTIN S. BEHNER, County Recorder  
By J. Beal Deputy  
Fee \$ 7.00 Paid

File No. ....

DUPLICATE

T. H R. 19 36

County 152

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 26 1963  
STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

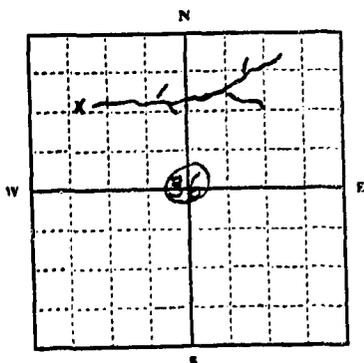
Date of Appropriation of Groundwater May, 1952

Owner Mills Folsom Address Rte. 4, Missoula,

Contractor (if any) ---

Address of Contractor ---

Date Started --- Date Completed ---



Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. springs, feeding creek in Ray

Gulch. Dead secured with purchase of land.

included all rights to waters in Ray Gulch.

Waters gathered in Reservoir located as shown.

Water used primarily for domestic use, plus some irrigation.

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 yearly use

except for extreme cold weather. Reservoir

constructed in 1938 (approximate date). Land

purchased in May, 1952. Ray creek flows approximately

20 miners inches, maximum, 5 miners inches, minimum.

Signature of Owner.....

Date 12-18-63

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.

487

214734

I received and filed this instrument  
record on the 25 day of Dec 1963  
at 3:35 o'clock P.M., permanent file  
of Missoula County, State of Montana  
Witness my hand:  
MARTIN E. BEHNER, County Recorder  
By *[Signature]* Deputy  
Fee \$ *[Signature]* Paid

Mr. Mills Folsom, Route 4, Missoula, Montana

February 26, 1964

December 23, 1968

214734

from Ray Guich.

310

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

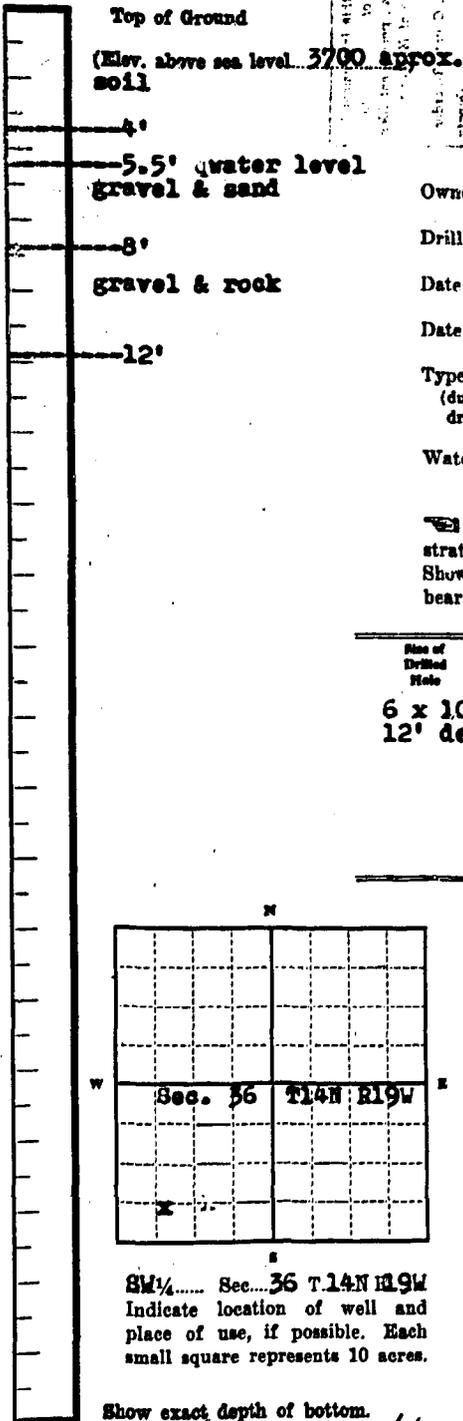
T. 14N R. 19W

DUPLICATE

County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEERS

RECEIVED  
MAR 26 1963  
STATE ENGINEER



Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Irvin M. FOLSON Address Missoula

Driller same Address \_\_\_\_\_

Date of Notice of Appropriation of Groundwater 3-22-63

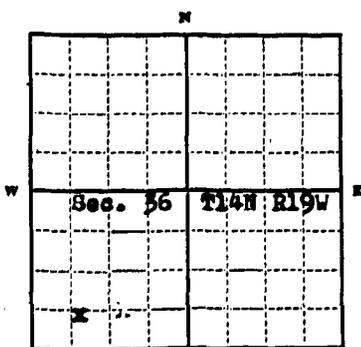
Date well started Oct. '62 Date Completed 20 Oct. '62

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

Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 x 10 12' deep	4' cement to 12'					



SW 1/4 Sec. 36 T14N R19W  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 5.5 feet.

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

Pumping Water Level 6.0 feet at 30 gal. per minute.

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

How Tested pump Length of Test 10 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) \_\_\_\_\_

Hole around cement casing filled with gravel pack.

Show exact depth of bottom.

*Subscribed and sworn before me this 22 day of March 1963  
Somers Express  
NOV-14-1965  
Jac Young  
Notary Public*

Driller's License Number \_\_\_\_\_

*Irvin M. Folson*  
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.

4026

4184  
C

204/65

I received and filed this instrument for  
record on the 22<sup>nd</sup> day of March, 1963  
at 5.00 o'clock P.M., permanent files  
of Missoula County, State of Montana  
Witness my hand:  
**MARTIN E. BEHNER, County Recorder**  
By [Signature]  
Fee \$ 3.00

RECEIVED

T 14N R 9W 36  
County Missoula

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

X		

Owner Robert Hoffmann Address Rt 4, East Pottersdale  
 Driller Glenn Camp Address 705 Alder Missoula  
 Date Started 9/5/59 Date Completed 9/10/59  
 Location: Sec 36 T. 14N R. 9W 1/4 sec. SW; NW corner of Lot 3, Block 1, Great Lakes

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

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

Casing: 0 ft. to 67' ft. Type 1 1/2" per foot Size 6" I.D. Seamless  
 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: 50' from ground level feet.

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

Pumping water level: 63 feet from top 20 gal. per min.

How tested: Bailer

Length of test: 4 hours

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

(over)



File No.

JUL 15 1966

T 14 R. 19 36

DUPLICATE

LOG Billie \_\_\_\_\_ McDermott \_\_\_\_\_  
B. \_\_\_\_\_ McNulty \_\_\_\_\_  
Coyne \_\_\_\_\_ Worton \_\_\_\_\_  
Darlington \_\_\_\_\_ Sullivan \_\_\_\_\_  
Dickert \_\_\_\_\_

County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER



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

0 top soil  
6' 6" tan clay, gravel,  
61' sand, and boulders  
61' tan clay, sand,  
66 1/2' gravel & water

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

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner ANDREW W. & JOAN G. KERR Address 7110 Sloat Dr  
1500 B. STREET, J.E.

Driller Ken Williams Address 1219 Howell St.

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

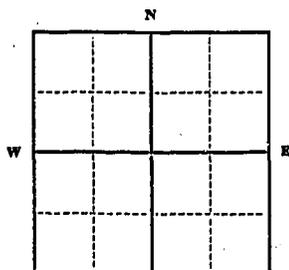
Date well started Nov. 16, 65 Date completed Nov. 23, 65

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" ID	6 5/8 OD 19 lbs. per ft.	1 ft. above ground level	66 1/2'			



Static Water Level for non-flowing well 44 1/2 feet.

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

Pumping Water Level 59 feet at 15 gal. per minute.

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

How Tested bail & test pump

Length of Test 4 hours

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

Lot 27, Block 5, Sycamore Acres #3

Mk. 1/4 Sec. 26, T. 14, R. 19  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

161  
Driller's License Number

Ken Williams  
Driller's Signature

41222

1623

252001

I received and filed this instrument for record on the 11 day of July 1966 at 9:30 o'clock A.M., permanent files of Missoula County, State of Montana.

Witness my hand:  
 Verance R. Crouse, County Recorder  
 By *Alan J. Mann*, Deputy  
 Fee \$ 2.00 Paid *cash*


Missoula County, Montana  
 Recorder's Office  
 Missoula, Montana



24

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

T. 14 N. 15 W.

DUPLICATE

County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 2 1964

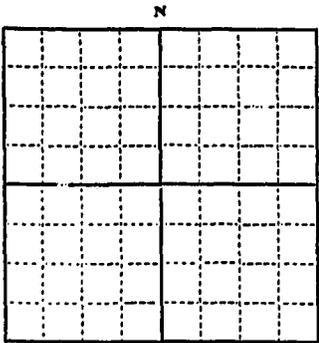
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Alfred Morris of Greenough  
(Name of Appropriator) (Address) (Town)

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



\_\_\_\_\_ 1/4 Sec. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1953 daily

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 33.00 gal per hr

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
Sauss in SE 1/4 SE 1/4 Plate E-1  
Sec 24 Twp 14 Range 15

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Submersible pump  
2.5 ft from place of business

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater June 1953

8. The depth of water table 101 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  
drilled well, 6 in casing

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

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  
none

Signature of Owner Alfred Morris

Date Dec 20 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.

17694

908

215381

Copy

I received and filed this instrument for  
record on the 31 day of Dec. 1963  
at 11:00 A.M., permanent files  
of Missoula County, State of Montana  
Witness my hand  
WALTER S. EDWARDS, County Recorder  
Charles S. Belman, Deputy  
Fee \$2.00 Paid

File No.

RECEIVED

14 R 15

DUPLICATE

AUG 17 1967

County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Top of Ground  
(Elev. above sea level) 3480

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner Allen & Lela Murrell Address Greenough Mont

Driller Bob Johnson Address Severy Lake Mont

Date of Notice of Appropriation of Groundwater

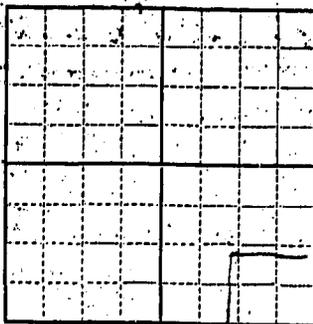
Date well started 4-1-67 Date Completed 4-9-67

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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	TEMPERATURES		
				Kind	From (Feet)	To (Feet)
	<u>1 1/2" E.S.P.</u>	<u>0</u>	<u>116'</u>			



SE 1/4 Sec. 14 T. 15 R. 15  
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 99 feet

Shut-in Pressure for Flowing Well

Pumping Water Level 100 feet at 15 gal. per minute

Discharge in gal. per 30' of pumping at 27 gpm with pump

How Tested Backer Length of Test 4 hours

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

Driller's License Number 103

Signature Bob Johnson

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.

42.212

1929

263 290

received and filed this Instrument for  
record on the 15 day of Aug. 1967  
at 10:35 o'clock P.M. permanent files  
of Missoula County, State of Montana  
Witness my hand:  
Verance R. Couse, County Recorder  
By *M. M. Conroy*, Deputy  
Fee \$2.00 *Pal*

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

DUPLICATE

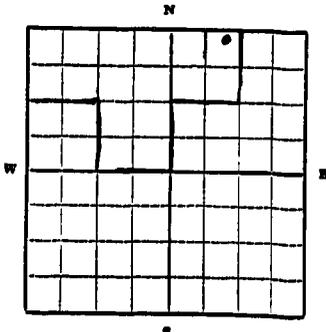
T. 14 N R. 15 W  
County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 3 1963

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

Harry & Ursula Pratt (Name of Appropriator) of Greensburg (Address) (Town)  
County of Missoula State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



..... 1/4 ..... Sec. 36 T. 14 R. 15  
Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

- The beneficial use on which the claim is based home use, irrigation
- Date or approximate date of earliest beneficial use; and how continuous the use has been 1924 used approximately 10 yrs.
- The amount of groundwater claimed (in ~~miners inches~~ or gallons per minute) 10
- If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof garden lawn, fruit protection
- The means of withdrawing such water from the ground and the location of each well or other means of withdrawal pump
- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1924
- The depth of water table 115 ft
- So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6 in. steel lining, 12.5 ft depth
- The estimated amount of groundwater withdrawn each year 250,000 gal
- The log of formations encountered in the drilling of each well if available clay, sand, gravel, rock
- 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

Ursula Pratt  
Signature of Owner Harry Pratt  
Date 12/30/62

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.

750

215158

*Copy*  
I received and filed this instrument for  
record on the *7<sup>th</sup>* day of *Jan* 19*63*  
at *1:36* o'clock *P.*M., permanent files  
of Missoula County, State of Montana  
Witness my hand:  
MARTIN S. BEHNER, County Recorder  
By *Martin S. Behner*  
Fee \$ *2.00* Paid



2566

334 220

I received and filed this Instrument for  
 record on the 29 day of June 19 73  
 at 12:12 o'clock P. M. in Instrument files  
 of Missoula County, State of Montana  
 Witness my hand:  
 Dorethy L. Head, County Recorder  
 By [Signature] Deputy  
 Fee \$ 2.00 Paid [Signature]

RECORDED  
 JUN 29 1973  
 MISSOULA COUNTY, MONTANA



T. 14N R. 14W 4

County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
MAY 5 1961  
STATE ENGINEER

WATER WELL LOG

	X		

Owner: Montana Highway Commission Address: Helena  
 Driller: Wm. J. Albrecht Address: Helena  
 Date Started: 3/6/61 Date Completed: 3/13/61  
 Location: Sec. 4 T. 14N R. 14W 1/4 sec. NW

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

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

Casing: 0 ft. to 46.8 ft. Type: welded joint Size: 4" pipe

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

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

Perforated or Screened: Ft. 20.0 to ft. 46.8 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations: 6" torch-cut slots (1/8" wide ±)

Static Water level, for non-flowing well: 17.0 feet.

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

Pumping water level: 17.0 feet at 25 gal. per min.

How tested: suction pump

Length of test: 2.5 hours

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)  
 Collar elevation 3820 feet  
 Water first encountered at 21.6 feet; continued in water-bearing zone  
 to depth of hole.

(over)



File No. ....

DUPLICATE

T. 14 N. R. 14 W

County Missoula

4

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 3 1964

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

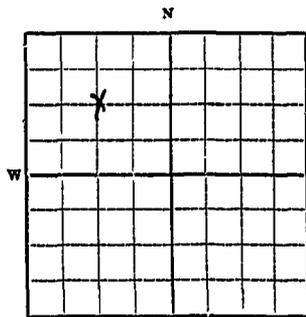
Date of Appropriation of Groundwater 1910

Owner O. W. Potter Address Greenough

Contractor (if any) none

Address of Contractor none

Date Started 1910 Date Completed none



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

Rain raising natural flow 2 feet. Ditch coming out of left bank flowing 2,000 miner inches

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

..... 1/4 ..... Sec. 4 T. 14 N. R. 14 W.

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

2,000 miner inches used intermittently through the summer months for irrigation of hay land

Signature of Owner O. W. Potter

Date December 27, 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.

689 215086

I received and filed this instrument for  
recording on the 30 day of Dec 1967  
at 9:15 o'clock A.M., permanent files  
of Missoula County, State of Montana  
Witness my hand,  
MAYNARD S. BEHRENS, County Recorder  
By *Walter T. Kelly* Deputy  
Fee \$ *0.00* Paid

File No. ....

T. 14 N. R. 14 W. E

DUPLICATE

County Missoula

LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD

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

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

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

0 - 6 Pit

6 - 13 Gravel, Boulders, and Clay  
Owner: James F. Geil Address: 414 Burlington Missoula, Montana  
Driller: C.K.C. Drilling Address: Box 670, Missoula

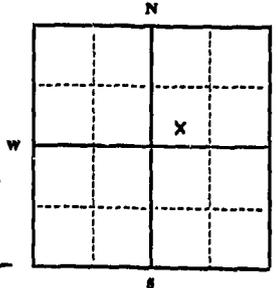
20 (from ground level) Date of Notice of appropriation of groundwater.....  
Static water level Date well started Oct. 1, 1969 Date completed Oct. 4, 1969

13 - 43 Silty sand and clay Type of well drilled Equipment used Churn Drill  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)  
Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

43 - 55 Sand, gravel and silty water Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	5"17#	5 ft. down	59 1/2 ft.	-----	-----	-----
59 1/2 Exact depth of bottom						

MONTANA WATER RESOURCES BOARD  
RECEIVED  
JAN 15 1970



Static Water Level for non-flowing well  
(From ground level) 20 feet.

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

Pumping Water Level 21' feet

at 40 gal. per minute.

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

How Tested Bailer & test pump

Length of Test 3 hours

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

Doc. No. 287896  
Filed for record  
this 12 day of January  
A. D. 19 70, at 4:45 SW 1/4 Sec. 8, T14N R14W  
o'clock P.M.

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

185

Driller's License Number

Charles F. Hollenstetter  
Driller's Signature.

46050

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.

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

Show exact depth of bottom.

1952

287896

received and filed this Instrument for  
 record on the 12<sup>th</sup> day of Jan 1970...  
 at 4:45 o'clock P.M. permanent files  
 of Missouri County, State of Montana  
 Witness my hand:  
 Veranna R. Grouse, County Recorder  
 By *M. M. Brumby* Deputy  
 Fee \$ 2.00 *Per each*

	X

Missouri County, Montana  
 Veranna R. Grouse, County Recorder  
 By *M. M. Brumby* Deputy  
 Fee \$ 2.00 *Per each*

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

T. H. N. R. I. W.

DUPLICATE

County Missoula

LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD

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

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

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

0-5 Topsoil & clay

Owner Raymond Havranek Address 523 W. Alder

Driller O.K.C. Drilling Address Box 670, Missoula

5-14 Gravel, boulders  
and clay

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

Date well started Oct. 4, 1969 Date completed Oct. 6, 1969

14-43 Clay & silty sand

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

25 Static water level

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

43-58 Clay, sand, gravel,  
and water

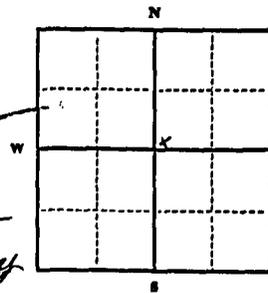
Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

58-61 1/2 Sand, gravel  
and water

Size of Drilled Hole	Size and Weight of Casing	From (Foot)	To (Foot)	PERFORATIONS		
				Kind Size	From (Foot)	To (Foot)
6"	6" 17#	1 1/2'	61 1/2'	-----	-----	-----

61 1/2 Exact depth of bottom

MONTANA WATER RESOURCES BOARD  
RECEIVED  
JAN 15 1970



Static Water Level for non-flowing well 25 feet.

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

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

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

How Tested Bailer & Test Pump

Length of Test 3 hours

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

Doc. No. 287913  
Filed for record  
this 13 day of JANUARY  
A. D. 19 70 at 2:40  
o'clock P.M.

Sec. 5 T. 14N R. 14W  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

185

Driller's License Number

Charles F. Hill  
Driller's Signature.

Show exact depth of bottom.

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

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

46049

1954

287913

I received and filed this instrument for record on the 13<sup>th</sup> day of June 1970 at 2:00 o'clock P. M. pursuant to the of Monrovia County, State of Maryland  
Witness my hand.  
Verance K. Cross, County Recorder  
By *Wm. M. Conroy*, Deputy  
Fee \$2.00 Paid.

STATE ARCHIVE

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

T. 14N R. 14W

DUPLICATE

MONTANA WATER RESOURCES BOARD  
RECEIVED

County Missoula

LOG

NOV 12 1969

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD

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

DEVELOPED AFTER JANUARY 1, 1962

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

Owner Michael A. Rasmussen Address 1736 Park Ave.  
Missoula, Montana

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

0 - 4 Topsoil

Driller C.K.O. Drilling Co. Address Box 670, Missoula

4 - 14 Gravel, Boulders and clay

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

Date well started Nov. 1, 1969 Date completed Nov. 4, 1969

14m- 43 Silty sand & clay

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

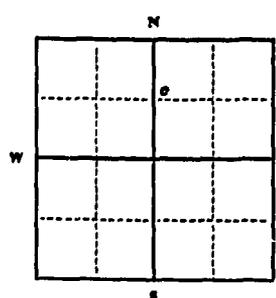
22' Static water Level

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.

43 - 48 Sand, gravel, & signs of clay & water

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
6"	6" 17#	1' up	48'	-----	-----	-----

48' Exact bottom



Static Water Level for non-flowing well 22' feet.

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

Pumping Water Level 22' feet at 25 gal. gal. per minute.

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

How Tested Test pump

Length of Test 3 hours

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

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

(Continue on reverse side)

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

Show exact depth of bottom.

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.

185  
Driller's License Number

Charles J. Hillenbrand  
Driller's Signature.

45842

1949

280229

I received and filed this instrument for  
record on the 7<sup>th</sup> day of Nov. 1949  
at 2:00 o'clock P.M., permanent files  
of Missoula County, State of Montana  
Witness my hand.  
Vermae R. Crouse, County Recorder  
By *M. J. Crouse* Deputy  
Fee \$2.00



MONTANA WATER RESOURCES BOARD  
**RECEIVED**

JAN 19 1970

MONTANA WATER RESOURCES BOARD  
Groundwater Division  
Mitchell Building  
Helena, Montana 59601

Recently a copy of a groundwater appropriation form,

- GW 1, Notice of Appropriation of Groundwater
- GW 2, Notice of Completion of Groundwater Appropriation by means of Well
- GW 3, Notice of Completion of Groundwater Appropriation without Well
- GW 4, Declaration of Vested Groundwater Rights (This form is obsolete and was limited by law to use only through 1965)

was forwarded to this office by the County Clerk and Recorder.

This form is identified by

Owner Michael A. Rasmussen Address 1736 Park <sup>ST.</sup> Avenue  
Missoula, Montana 59801

Location \_\_\_\_\_ Document No. 286229

The form is complete as filed. This is to inform you that your GW form has been received and no further action is necessary on your part.

The form is incomplete. Please complete the enclosed copy by providing information where indicated, or as noted here and return the corrected copy to the Montana Water Resources Board in Helena.

Please indicate exact location of well site by Township, Range, and Section.

Other.

County recording information is missing. Please forward this information to the Montana Water Resources Board in Helena.

*Note: Our address  
is 1736 Park St.  
not Ave.*

*Douglas E. Smith*

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

T. 14N R. 14W

DUPLICATE

MONTANA WATER RESOURCES BOARD  
**RECEIVED**

County Missoula

LOG

NOV 15 1969

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD

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

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

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

0 - 4 Topsoil

Owner Michael A. Rasmussen Address 1736 Park Ave.  
Missoula, Montana

4 - 14 Gravel, Boulders  
and clay

Driller C.X.O. Drilling Co. Address Box 670, Missoula

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

Date well started Nov. 1, 1969 Date completed Nov. 4, 1969

14m- 43 Silty sand &  
clay

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

22' Static water level

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.

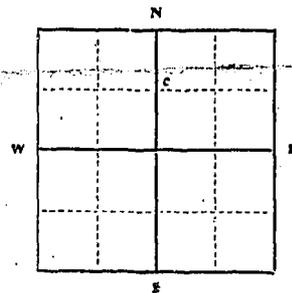
43 - 48 Sand, gravel,  
& signs of clay &  
water

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" 17#	1' up	48'			

48' Exact bottom

MONTANA WATER RESOURCES BOARD  
**RECEIVED**

JAN 19 1970



Static Water Level for non-flowing well 22' feet.

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

Pumping Water Level 22' feet  
at 25 gal. gal. per minute.

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

How Tested Test pump

Length of Test 3 hours

Remarks: (Gravel packing, cementing, pack-  
ers, type of shutoff) \_\_\_\_\_

1/4 Sec. 8 T. 14N R. 14W  
Indicate location of well and  
place of use, if possible. Each  
small square represents 40  
acres.

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

185

Driller's License Number

Charles J. Hildebrand  
Driller's Signature.

42542

9

File No. ....

T. 14 N R 14 W

DUPLICATE

County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 2 1964

STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1918

Owner O. W. Peltier Address Greenough, Mont.

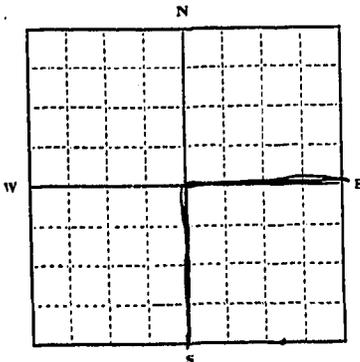
Contractor (if any) .....

Address of Contractor .....

Date Started 1918 Date Completed 1918

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

taken by dam and irrigation ditches



SE 1/4 ..... Sec. 9 T. 14 R. 14  
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. Entire

flow of stream taken for 3 month  
period

Signature of Owner E. Dan L. Ranch

By John Stone  
Date Dec 31, 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.

893

2,5366

Copy

I received and filed this instrument for  
record on the 30 day of April 1942  
at 10:25 o'clock A. M., permanent files  
of Missoula County, State of Montana  
Witness my hand:  
MARTIN S. BROWN, County Recorder  
Martin S. Brown Deputy  
Fee \$ 3.00 Paid

File No. ....

T. 14<sup>N</sup> R. 14<sup>W</sup>

DUPLICATE

County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 2 1964

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

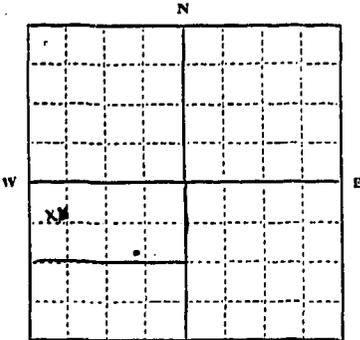
Date of Appropriation of Groundwater 1938  
Owner John B. Stone Greenough, Mont.  
Address Julia, Pa.

Contractor (if any) .....

Address of Contractor .....

Date Started 1938 Date Completed 1938

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. 1. Spring - contained by concrete pump  
2. Water from Clearwater River obtained by use of pumps.



North 1/2 S. 1/4 W. Sec. 9 T. 14 R. 14.

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: 1. Spring used for household water. Taken at source and all flows used. 12 month  
2. Water pumped from Clearwater River with pumps producing 350 gals. per minute 6 month use

Signature of Owner John B. Stone

Date Dec. 31, 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.

892

215365

Copy

I received and filed this instrument for  
record on the 31st day of Dec. 1963  
at 10:26 a.m. permanent files  
of Mineral County, State of Montana  
Witness my hand.  
MARTIN S. FINNER, Recorder  
By *Martin S. Finner*  
Fee *2.00* Paid

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

MAR 1 1967

T. 14 R. 14

DUPLICATE

Bills \_\_\_\_\_ McDermott \_\_\_\_\_  
 Butzorn \_\_\_\_\_ McNulty \_\_\_\_\_  
 Coyle \_\_\_\_\_ Morton \_\_\_\_\_  
 Darlinton \_\_\_\_\_ Sullivan \_\_\_\_\_  
 Dickert \_\_\_\_\_

County Missoula

LOG

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level \_\_\_\_\_)

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

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

0 to 1½' Top soil  
 1½' to 21' Boulders Clay & gravel  
 23' to 23' Clay, gravel & broken rock  
 25' to 33'-2" Water, gravel broken rock & Clay & boulders  
 33'-2" to 35' Boulders & clay (no water)

Owner Land M. Lindbergh Address Greenough, Mont. Lindbergh Cattle Co.

Driller Glenn Camp 705 Alder Address Missoula, Mont.

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

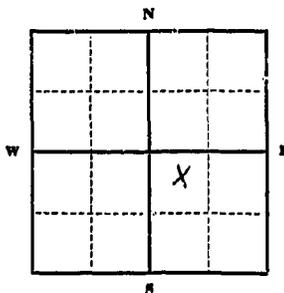
Date well started 5/17/66 Date completed 5/19/66

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

Water use: Domestic  Municipal  Stock  Irrigation   
 Industrial  Drainage  Other  Casing

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" I.D. 19# to two ft.	10" above G.L. to 35'-7"		none		



Static Water Level for non-flowing well 23½ feet.

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

Pumping Water Level 26 feet  
 at 23 gal. per minute.

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

How Tested Test Pump

Length of Test 1 hour

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

¼ Sec. 10 T. 14 R. 14  
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

License No. 7  
 Driller's License Number

Glenn Camp  
 Driller's Signature

H1767

1685

258406

I received and filed this instrument for  
record on the 27 day of Oct. 19 67  
at 2:30 o'clock P. M., permanent files  
of Missoula County, State of Montana  
Witness my hand:  
Vernon H. Clousa, County Recorder  
By *Paul H. Smith* Deputy  
Fee \$ *0.00* Paid *Cash*

RECORDED  
INDEXED  
MAY 1968  
MISSOULA COUNTY CLERK

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

RECEIVED  
FEB 3 - 1971

DRILLER'S LOG

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL  
Developed after January 1, 1962

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

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

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

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

Owner Lindbergh Cattle Company  
Land Lindbergh Pres.

Address Greenough  
Montana

Date well started July 2, 1970  
completed July 16, 1970

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

Equipment used Churn Drift  
(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). \_\_\_\_\_

For Administrator's Use

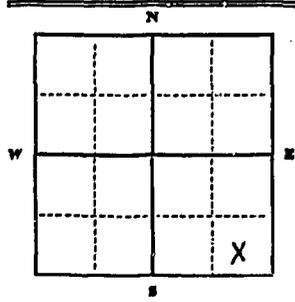
File 299024  
January 25, 1971  
2:10 P.M.

GW 1 \_\_\_\_\_

Top of Ground		(Elev. above sea level)
From (Foot)	To (Foot)	
0	4	Topsoil & Gravel
4	19	Siltstone & Gravel
19	23	Sandstone & Gravel
23	35	tan clay & gravel
35	63	Brown Clay & Sand
63	96	Sand, Gravel & Clay
96	111	Red Clay & Broken Rock
111	145	Brown Clay & Broken Rock
145	140	Broken Red Rock & Clay
140	150	Red Rock
150	170	Broken Rock & Clay
170	177	Red Rock
177	202	White Rock & Water
202	205	Red Rock
205	300	Red Rock

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Foot)	To (Foot)	PERFORATIONS		
				Kind Size	From (Foot)	To (Foot)
6" I.D.	6" I.D. 17 lb per ft.	1' above G.L.	114'	Burnt 1/8" x 3" in 5" liner	204	208
5" I.D. liner	5" I.D. 14 lb per ft.	111'	300'		291	295



Static water level ..... 138 ..... ft.\*  
Pumping water level ..... 240 ..... ft.\*  
at ..... 3 ..... gallons per minute,  
measured 30 ..... minutes after pumping began.  
\*Measured from ground level.  
Well developed by Test Pump  
for ..... 3 ..... hours.  
Power 2hp ..... Pump 3/4 ..... HP  
Remarks: (Gravel packing, cementing, packers, type of shutoff) \_\_\_\_\_

S.E. 1/4 SE 1/4 Sec. 18  
T. 14 N. R. 14 E

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

Driller's Signature Alumni Camp  
CAMP WELL DRILLING & PUMP SUPPLY  
Driller's Address 1522 S. 14th St.

Missoula, Montana LICENSE NO. 4-7

300 Show exact depth of bottom

48093



GW 3

File No. ....

T. 14 N. R. 14 W

DUPLICATE

County Missoula

22

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 8 1963  
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

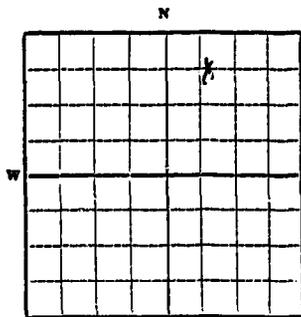
Date of Appropriation of Groundwater 1910

Owner O. W. Potter Address Greznough

Contractor (if any) none

Address of Contractor none

Date Started 1910 Date Completed none



Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring source not changing flow even in drought years proving a deep spring with source good distance from oil crop

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

..... 1/4 Sec. 22, T. 14 N. R. 14 W  
Indicate point of appropriation and place of use, if possible.

Constant flow of a 4" pipe

Signature of Owner O. W. Potter

Date December 27, 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.

687 215084

I received and filed this instrument for  
recording on the 2<sup>nd</sup> day of Dec 1917  
at 9:14 o'clock A.M., pursuant to law  
of Muskogee County, State of Oklahoma  
Witness my hand:  
MARTIN S. BISHOP, County Recorder  
By: *Martin S. Bishop* Deputy  
Fee \$ 2.00 Paid

GW3

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

DUPLICATE

T. 14N R. 14W

County Missoula

27

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 3 1963

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1910

Owner O. W. POTT Address Greengrass

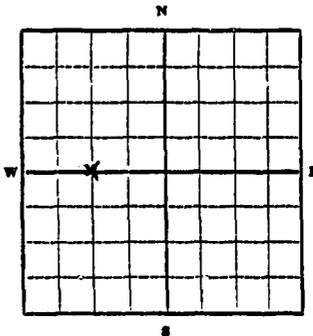
Contractor (if any) None

Address of Contractor None

Date Started 1910 Date Completed None

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

Fish Creek



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

1/4 Sec. 27 T. 14N R. 14W  
Indicate point of appropriation and place of use, if possible.

Quantity of water not shown  
excess flow used 6 months  
out of year

Signature of Owner O. W. Pott

Date December 27, 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.