

## Log of Well

[illegible]

NW 3

File No. ....

DUPLICATE

*Location Section 13*

RECEIVED

FEB 13 1964

37<sup>N</sup> 6<sup>E</sup> 13  
T. 37<sup>N</sup> R. 6<sup>E</sup>

County *Liberty*

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 12 1963

STATE ENGINEER

# Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater *1920's*

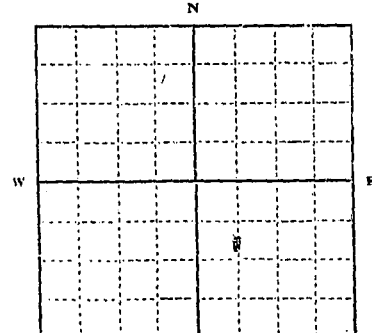
Owner *Clarence F. McDaniel* Address *White Fish, Mont.*

Contractor (if any) *None*

Address of Contractor .....

Date Started *1920's* Date Completed *1920's*

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. *Natural Spring dug out and cased 16 feet. Wooden casing 4" x 11".*



*NW 1/4 Sec. 13, T. 37 N. R. 6 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 *Will pump water for approx. 1 hr. with 1 1/2" inch, gasoline driven pump.*

Signature of Owner *Clarence F. McDaniel*  
*By Alvin T. McDaniel* Date *12/16/63*

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.

8633

84075

STATE OF MONTANA, } ss.  
County of Liberty,

Filed Dec 10 1963

at 3:20 o'clock P.M.

Gilbert Shivers  
County Clerk

By Barbara Shivers  
Deputy

Fee \$ 2.00

GW 2

File No. ....

DUPLICATE

T. 37 N R. 6 E S. 18  
County LibertySTATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEERRECEIVED  
MAY 10 1962**Notice of Completion of Groundwater  
Appropriation by Means of Well** ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

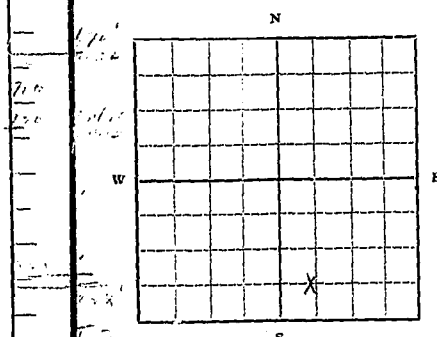
Owner Robert S. Turner Address Chesley, Mont.Driller Warren C. Lakin Address Chesley, Mont.

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

Date well started 11-20-61 Date Completed 1-29-62Type of well Drilled Equipment Used Cable  
(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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>7 inch</u>	<u>Oil Well casing 7 inch</u>		<u>828</u>			

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

SW 1/4 SE Sec 18 T. 37 R. 6

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 500 feet.

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

Pumping Water Level 400 feet at 35 gal. per minute.

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

How Tested Baker Length of Test 45 min.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) 30 acresReg. No. 269 - C 2860  
Driller's License NumberWarren C. Lakin  
Driller's Signature

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

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

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

82265

STATE OF MONTANA, } ss.  
County of Liberty.

Filed May 8 1962

at 4:35 o'clock P. M.

Gilbert Brenner  
County Clerk

By 00 Deputy

Fee \$ 2

GW

Approved Stock Form—State Publishing Co., Helena, Montana—38687

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

DUPLICATE

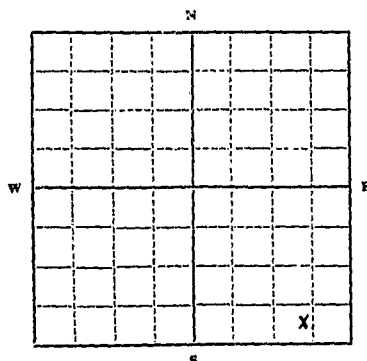
T. 37 N. R. 6 E.  
County. LibertySTATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEERRECEIVED  
JUL 30 1963

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

Robt S Turner of Chester Montana  
 (Name of Appropriator) (Address) (Town)  
 County of Liberty State of Montana  
 have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 SE Sec. 22 T. 22 R. 6

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 Water3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1950  
yearly4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallons per min5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
No Irrigation6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Electric pump7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Not known8. The depth of water table 8 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 12 ft. deep 4' dia. Casing10. The estimated amount of groundwater withdrawn each year 300,000 gals.11. The log of formations encountered in the drilling of each well if available  
Sand & Gravel12. 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

Robt S TurnerDate July 29-63

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.

5203

83554

STATE OF MONTANA, } ss.  
County of Liberty.  
Filed July 29, 1963  
at 10:05 o'clock 9 M.  
Alfred Greenier  
County Clerk  
By \_\_\_\_\_ Deputy  
Fee \$ 2.00

GV

File No. ....

DUPLICATE

T. 37 N. R. 6 E.

County Liberty

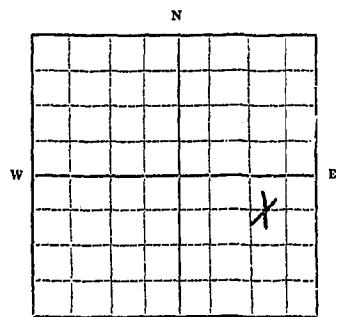
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED

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

STATE ENGINEER

1. Robt. S. Turner, of Chester Montana  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 22 T. 37 N. R. 6 E.  
Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Line stock water well
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1920
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallons 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 none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Hand pumps now electric submersible
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1920
8. The depth of water table 12 ft. 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 2 wells 4 ft. diameter casing 16 ft. deep
10. The estimated amount of groundwater withdrawn each year enough to Water 300 head of cattle
11. The log of formations encountered in the drilling of each well if available no hand dug
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 Robt. S. Turner  
Date April 27-1962

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 School of Mines and Quadruplicate for the Appropriator.



82264

STATE OF MONTANA  
County of Liberty  
Filed May 8 1962  
at 4:35 P. M.  
Gilbert D. Green  
County Clerk  
By \_\_\_\_\_ Deputy  
Fee \$ 2.00

Form No. 18  
8-60

T. 37 R. 6

County Liberty

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
DEC 27 1961

WATER WELL LOG

STATE ENGINEER

			X

Owner John W. Duncan Address Joplin, Montana

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

Date Started \_\_\_\_\_ Date Completed June 15, 1961

Location: Sec. 23 T. 37 R. 6  $\frac{1}{4}$  sec. SESE

Type of well Dug 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 Road culvert Size 15" x 12"

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: 9 gallons per minute

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

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

(over)

## Log of Well

[illegible]

**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.

**SAGE CREEK COLONY**

Owner

**CHESTER MONTANA**

Address

For Administrator's Use

File

93235

5/29/13

Date well started 5-2-1970

GW: 1:40 P.M.

completed 5 12 1979

completed 5 12 1970

Type of well Dug 6 by 10 ft. culvert

(Du<sub>2</sub>, driven, bored or drilled)

Equipment used .....Backhoe

(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

[illegible]

Figure 1 is a 3x3 grid map of the study area. The grid is labeled with 'N' at the top, 'S' at the bottom, 'W' on the left, and 'E' on the right. The middle row contains three cells labeled '100%', '50%', and 'X'. The bottom row contains three cells labeled 'X', 'X', and 'X'.

Static water level .....8.....ft.\*  
Pumping water level .....8.....ft.\*  
at 0 to 30 gallons per minute,  
measured .....minutes after pumping  
began.

\*Measured from ground level.

Well developed by Owner  
for .....hours.

Power **Electric** Pump..... $\frac{1}{2}$ ..... HP

Remarks: (Gravel packing, cementing,

packers, type of shutoff) Valve

Electrod

S.E. 1/4 .. S. 1/4 Sec... 29

T..... N R..... E

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

Driller's Signature Sage Creek Colony by Paul Webb

Driller's Address ..... Sage Creek Colony

**Chester Montana**

LICENSE NO.

Show exact depth of bottom

53,304

93233

STATE OF MONTANA. } ss.  
County of Liberty.

Filed 5-29, 1973

at 1:40 o'clock P.M.  
Dora Steinbigner  
County Clerk

By \_\_\_\_\_ Deputy

Fee \$ 2.00

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

DUPLICATE

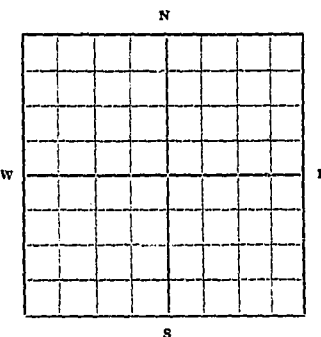
T. 37N R. 6E 29 32  
County Liberty

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

RECEIVED  
STATE ENGINEER

1. Miller Colony, of Chester, Montana  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. T. 37 N. R. 6 E.  
Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based Domestic use for livestock and for irrigating trees and lawn
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Feb. 14, 1962 - used continuous since then
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 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 2 1/2 NW 1/4 of Sec. 29, NE 1/4 & NW 1/4 of Sec. 32, T. 37 N., R. 6 E., M.M. used for irrigating lawn and trees around building.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Submersible pump in well in SE corner of NE 1/4 of Sec. 32, T. 37 N., R. 6 E.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commenced about January 27, 1962 and completed about February 14, 1962
8. The depth of water table 703 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 Not applicable
10. The estimated amount of groundwater withdrawn each year 10,000 to 16,000 gallons per day
11. The log of formations encountered in the drilling of each well if available Log attached hereto
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. Not applicable

MILLER COLONY

Signature of Owner Paul P. Waff  
BY Wm President  
Date 5/11/62

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.

LOG OF MILLER COLONY ROGERS #2 Drilled and completed February 1961

Location about 500 feet south of New Camp. About 100 feet south of Miller

Colony #1 Drilled in 1960 by Orville Jacobson.

**Formation Record;**

0 to 135 Surface soil  
135 to 137 Gravel (water) appeared to be about 2 gallons per minute.  
137 to 230 Clay  
230 to 231 Gravel (Possibly seep of water)  
231 to 577 Gray Brownish Shale.  
577 to 580 gray sand and chalky bentonite shale about 50% sand.  
580 to 585 Judith river shales and shells  
585 to 624 gray shale  
624 to 628 Black shale  
628 to 629 Hard rock.  
629 to 650 Brown and gray shales.  
650 to 655 Gray shale streaks of coal.  
655 to 664 ~~Gray shale~~ Gray shale.  
664 to 673 Hard line shell  
673 to 683 Soft gray shale  
683 to 685 Sand and chalky shale.  
685 to 687 Hard shell  
687 to 691 Bentonite and shales.  
691 to 700 Soft light sandy shale and bentonite.  
700 to 703 Some clean sand Light in color (top of ~~the~~ Virgelle.

Ran pipe tested at 135 Water mostly mudied off. Tested again at 687 making some water, apparently ~~from~~ mostly from 135 feet. Filled up to 35 feet from top in 17 hours shut down. Set pipe on bottom 703 feet, bailed hole dry. 30 minute test showed no water.

713 to 743 Sand and Water.  
743 to 748 Sandy shale Hard 743 to 746  
748 to 758 Hard sand.  
758 to 762 Sandy shale.  
762 to 775 Chalky bentonitic sand about 50% each.  
775 to 785 Sandy shale and Bentonite.

Filled hole back up to 745 with pea gravel. Run 1 1/2 inch tubing to 660 + 6' 2" Turbine pump. First electrode at 660 and #2 electrode at 400 feet.

Bailer tested with 4" bailer could lower fluid column to about approximately 575 feet pulling approximately 6 gallons per minute.

**CASING RECORD;**

703 feet of 5 1/2 O.D. Water well casing set at 703. No Cement. (9 pounds per foot 1/4 thread Galvanized.

DRILLER. Elmer Bolan TOOLIE, Bill Nicholson. Rotary tools were used from 0 to I.D. 6 3/4 inch hole from 0 to 703. 4 3/4 inch hole 703 to 785.

**STATEMENT TO MILLER COLONY AS PER AGREEMENT:**

785 feet of hole at \$3.00 per foot.	2355.00
1 extra test	50.00

Bal. 2405.00

Signed, \_\_\_\_\_

Contractor.

82347

STATE OF MONTANA, } ss.  
County of Liberty.

Filed May 29, 1962  
at 3:30 o'clock P. M.

Gilbert Greiner  
County Clerk  
By Dora Schumberger  
Deputy

Fee \$ 2.00



AFFIDAVIT

RECEIVED  
JAN 6 1964  
STATE ENGINEER

State of Montana       )  
                          : ss.  
County of Liberty     )

Paul P. Wipf, Vice President of the Miller Colony of Chester, Montana,  
being first duly sworn deposes and says:

That he caused Document No. 82347 listed as well No. 64 to be  
filed with the Clerk and Recorder of Liberty County on May 29, 1962.

That thru an error recently discovered, the Approximate date of  
earliest beneficial use was listed as February 14, 1962.

That this portion of the Declaration of Vested Groundwater Rights  
under Section 3 should read as follows: "February 14, 1961 - used  
continuously since then."

That this affidavit is made for the purpose of correcting the  
year used on the original document from 1962 to 1961 which is the  
correct date that beneficial use was commenced.

Paul P. Wipf  
Vice President

Subscribed and sworn to before me this 10th day of December, 1963.

[Signature]  
Notary Public for the State of  
Montana. Residing at Chester,  
Montana. My Commission Expires  
Dec. 5, 1966

84072

Dec. 10 63  
11:25 A.  
Gibson, Green  
Dora Hembry  
\$1.00

File No.

DUPLICATE

T. 37<sup>th</sup> R. 6<sup>E</sup>

County

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

AMENDEDRECEIVED  
DEC 23 1963

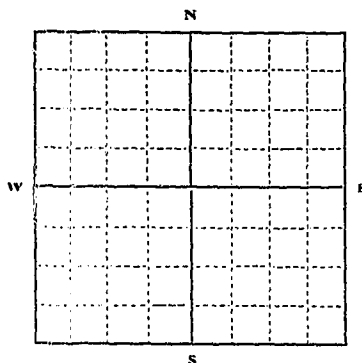
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

MILLER COLONY

Chester, Montana

1. \_\_\_\_\_, of \_\_\_\_\_  
(Name of Appropriator) (Address) (Town)County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows: $\frac{1}{4}$  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 Domestic  
use for livestock and for irrigating trees and  
lawn.3. Date or approximate date of earliest beneficial use; and how continu-  
ous the use has been February 14, 1961, used  
continuous since then.4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 20 gallons per minute5. If used for irrigation, give the acreage and description of the lands  
to which water has been applied and name of the owner thereof  
E. SW  $\frac{1}{4}$  Sec. 29; NE  $\frac{1}{4}$  & NW  $\frac{1}{4}$  of  
Sec. 32, T. 37 N., R. 6 E., N.M. used for  
irrigating lawn & trees around building.6. The means of withdrawing such water from the ground and the loca-  
tion of each well or other means of withdrawal Submersible  
pump in well in SE corner of NE  $\frac{1}{4}$  of Sec. 32,  
T. 37 N., R. 6 E.7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater Commenced January 27, 1961 and completed about  
February 14, 19618. The depth of water table 703 feet9. 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 Not applicable10. The estimated amount of groundwater withdrawn each year 10,000 to 16,000 gallons per day11. The log of formations encountered in the drilling of each well if available Log attached hereto12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including  
reference to book and page of any county record Not applicable

MILLER COLONY

Signature of Owner BY

BY

Vice President  
Paul P. WiffDate Dec. 10 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.

11576

84171

STATE OF MONTANA } ss.  
County of LIBERTY  
Filed Dec. 17 1963  
at 11:20 AM  
Allen Green  
County Clerk  
By \_\_\_\_\_ Deputy  
Fee \$ 2.00



LOG OF MILLER COLONY BORER #2 Drilled and completed February 1961

Location about 500 feet south of New Camp. About 100 feet south of Miller  
Colony #1 Drilled in 1960 by Orville Jackson.

**Formation Record:**

0 to 135 Surface soil  
135 to 137 Gravel (water) appeared to be about 2 gallons per minute.  
137 to 230 Clay  
230 to 231 Gravel (Possibly sweep of water)  
231 to 577 Gray Brownish Shale.  
577 to 580 gray sand and chalky bentonite shale about 50% sand.  
580 to 585 Judith river shales and shells  
585 to 624 gray shale  
624 to 628 Black shale  
628 to 629 Hard rock.  
629 to 650 Brown and gray shales.  
650 to 655 Gray shale streaks of coal.  
655 to 664 ~~Hard~~ Gray shale.  
664 to 673 Hard lime shell  
673 to 683 Soft gray shale  
683 to 685 Sand and chalky shale.  
685 to 687 Hard shell  
687 to 691 Bentonite and shale.  
691 to 700 Soft light sandy shales and bentonite.  
700 to 703 Same clear sand light in color (top of ~~Red~~ Virgalio.

Ran pipe tested at 135 Water quickly added off. Tested again at 687 making camp  
water, apparently ~~flow~~ mostly from 135 feet. Filled up to 35 feet from top in 17  
hours shut down. Set pipe on bottom 703 found, drilled hole dry. 30 minute test showed  
no water.

703 to 743 Sand and water.  
743 to 748 Sandy shale Hard 743 to 748  
748 to 758 Hard sand.  
758 to 768 Sandy shale.  
768 to 775 Chalky bentonite sand about 90% sand.  
775 to 785 Sandy shale and Bentonite.

Filled hole back up to 775 with pea gravel. Ran 1 1/2 inch tubing to 660 - 4" 7" Turbine  
pump. First electrode at 660 and 4" electrode at 600 feet.

Miller tested with 4" Miller would lower fluid column to about approximately 575  
feet pulling approximately 6 gallons per minute.

**CASING RECORD:**

703 feet of 5/8" O.D. Water well casing set at 703. No Cement. (9 pounds per foot  
1/4 thread Galvanized).

DRILLER: Elmer Brian WOOD, Bill Nicholson. Battery tools were used from 0 to 743.  
6 3/4 inch hole from 743 to 703. 4 1/2 inch hole 703 to 785.

WARRANTY TO MILLER BORER CO. FOR AGREEMENT.

755 feet of hole at \$1.00 per foot.

\$ 755.00

1 - casing hole

\$0.00

B-1 7005.00

County LIBERTY

MAY 31 1973

५३,३०३

93232

STATE OF MONTANA, }  
County of Liberty, }

Filed 5-29, 19 73

at 1:40 o'clock P. M.

John Hainbigner  
County Clerk

By \_\_\_\_\_ Deputy

Fee \$ 2.00



County ~~Liberty~~

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 **SAGE COLONY**

Address **CHESTER MONTANA**

Date well started OCT 24 1972

completed ~~NOV~~ 2 1972

Type of well Drain ditch. 6in. pipeline. drain swamp

Equipment used ..... Backhoe


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). Appr. 70 acres

ESTIMATED ANNUAL WITHDRAWAL ..... [illegible]

X	X		
X	X		

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

\*Measured from ground level.

Well developed by ...  
for .....hours.

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

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

N,W, S packers, type of shutoff) .....  
 Free flow at 50 to 90 gal. per min. ....  
 1/2" 3/4" OP 1/4 Sec. 32 .....  
 T. 37 N.R. 6 E .....  
 S W

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

Driller's Signature Larry Orell Closing By Paul P.W. Jr.  
Pres.

Driller's Address Sage Creek Colony

Chester Montana 59522

LICENSE NO.

Top of Ground

(Elev. above sea level)

From  
(Feet)

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.

Appx. 800 ft. of 6 in.  
pipeline, water discharges  
in to reservoir  
Irrigation by sprinkler  
system

Draining part of sec.  
32 and sec 29.

Show exact depth of bottom

53,306

93235

STATE OF MONTANA, 51.  
County of Liberty.

Filed 5-29 23

at 1:40 o'clock P.  
Alexa Thibodeau  
County Clerk

By \_\_\_\_\_ Deputy

Fee \$ 2.00

Page        of       [illegible]

OWS

File No. ....

TRIPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

T. 37<sup>N</sup> R. 7<sup>E</sup> 18

County Lehigh

RECEIVED  
MAR 10 1961

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater .....

Owner Blanch Lake Address Jupiter Mont

Contractor (if any) .....

Address of Contractor .....

Date Started 9/10/59 Date Completed 9/15/59

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

obtained by excavating dirt from  
pan, and forming a dam  
depth to water about seven  
feet

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 .....

Water is used to water cattle  
during fall and winter  
also for spraying water  
for fields

Signature of Owner Blanch Lake

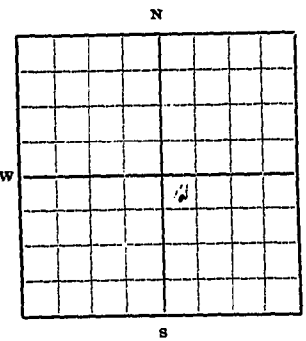
Date Nov 18 - 63

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 School of Mines and Quaduplicate for the Appropriator.



S.E. 1/4 Sec. 18 T. 37 R. 7  
Indicate point of appropriation and place of use, if possible.

83159

STATE OF MONTANA, } ss.  
County of Liberty, }

Filed Mar. 18, 1963

at 9:35 o'clock 9 M.

Giles Green  
County Clerk

By Alan Kumbayev  
Deputy

Fee \$ 2.00

GW3

File No. ....

TRIPLICATE

*wrong copy  
and should be QWA*T. 37 N. 7E R. 18County HelenaRECEIVED  
MAR 18 1963STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

## Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater .....

Owner Blanchette Lake Address Joplin, Mont.

Contractor (if any) .....

Address of Contractor .....

Date Started 9/3/59 Date Completed 9/10/59Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Ground water wasobtained by excavating dirt  
from bottom and forming a  
dam. Depth to water is  
about 10 feet

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

tent estimate approximate lengths of periods of use .....

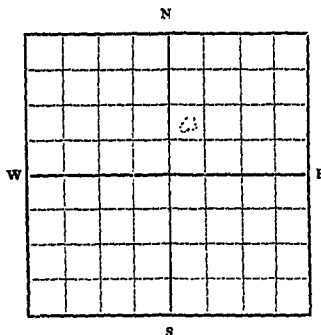
water is used for cattle during  
fall and winterSignature of Owner Blanchette LakeDate Mar 18 - 63

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 School of Mines and Quadruplicate for the Appropriator.

NE 1/4 Sec. 18 T. 37 R. 7  
Indicate point of appropriation  
and place of use, if possible.

83160

STATE OF MONTANA, } ss.  
County of Liberty,

Filed Mar. 18, 1963

at 9:35 o'clock A. M.

Gilbert Green  
County Clerk

By Lara Humbigner  
Deputy

Fee \$ 2.00

File No. ....

T. 37N R. 7E

DUPLICATE

County Liberty

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

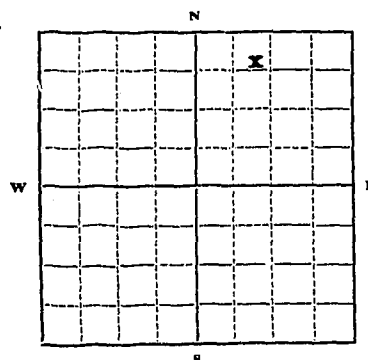
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
DEC 13 1963

STATE ENGINEER

I, Rodney K Svenson, of Joplin  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 19 T. 37N R. 7E

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 Stock Use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....Drilled in 1937
4. The amount of groundwater claimed (in miner's inches or gallons per minute).....5 Gallons Per Minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.....  
Used for Garden Plot
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....  
Electric Cylinder Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....Fall of 1937
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.....60 Feet of 7 In. Steel Casing, 108 Feet of Galvanized tin casing inside
10. The estimated amount of groundwater withdrawn each year.....100,000 Gallons
11. The log of formations encountered in the drilling of each well if available.....Not Available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.....Not Available

Signature of Owner

Date Dec. 11, 1963

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

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

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



84080

STATE OF NORTH CAROLINA } ss.  
County of Guilford  
Filed Dec 11 1963  
at 1:40 o'clock P. M.  
Allen Humes  
County Clerk  
By Dora Zembayew  
Fee \$ 2.00

RECEIVED  
CLERK OF SUPERIOR COURT  
JAN 13 1964

GW

Approved Stock Form—State Publishing Co., Helena, Montana—38687

File No. ....

T. 37N R. 7E

DUPLICATE

County. Liberty

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

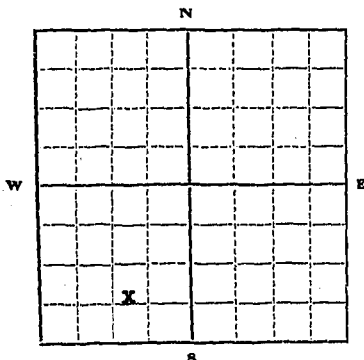
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
DEC 13 1963

STATE ENGINEER

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



SE 1/4 SW 1/4 Sec. 21 T. 37N R. 7E

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 use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Fall of 1961
4. The amount of groundwater claimed (in miner's inches or gallons per minute). 5 Gallons Per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. Not used for Irrigation
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Electric Cylinder Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Fall of 1961
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. 6 In. Galvanized Casing One Fourth inch Casing, 230 Feet Deep, Bottom Twenty Feet perforated.
10. The estimated amount of groundwater withdrawn each year. 40,000 Gallons
11. The log of formations encountered in the drilling of each well if available. Not Available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. Not Available

Signature of Owner

Knut SvensonDate. Dec. 11, 1963

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

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

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

8922

84081

STATE OF MONTANA. } ss.  
County of Liberty,

Filed Dec. 11 1963

at 1:40 o'clock P.M.

Gilbert Green  
County Clerk

By Dora Hernandez  
Deputy

Fee \$ 2.00

RECEIVED

Form No. 18  
8-60

23

T. 37 R. 7E  
County Liberty

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER


Owner Orville Plimley Address Joplin, Montana  
Driller Anderson, ? Address \_\_\_\_\_  
Date Started 1951 Date Completed 1951  
Location: Sec. 25 T. 37 R. 7E  $\frac{1}{4}$  sec. S45 $\frac{1}{2}$ W

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

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

Casing: 6' ft. to 90 ft. Type Galvanized Size 6 in.

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 50 feet at (1) one gal. per min. \_\_\_\_\_

How tested: Not tested

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

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

Gravel packing.

(over)

Form No. 18  
8-60

T. 37 R. 7E

County Liberty

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED

STATE ENGINEER

WATER WELL LOG


Owner P. F. Pimley Address Joplin, Montana

Driller McCoy,---- Address Unknown

Date Started 1949 Date Completed 1949

Location: Sec. 25 T. 37 R. 7  $\frac{1}{4}$  sec. SE $\frac{1}{4}$ NE $\frac{1}{4}$

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

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

Casing: 1 ft. to 375 ft. Type 6" Galvanized Size \_\_\_\_\_

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

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

Perforated or ~~Screened~~: Ft. 1 to ft. 20. Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations Nail holes

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

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

Pumping water level 100 feet at unlimited gal. per min. \_\_\_\_\_

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

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

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

Gravel packed on outside.

(over)

Form No. 18  
8-60

T. 37 R. 7  
County Liberty

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
OCT 27 1961

WATER WELL LOG

STATE ENGINEER

X		

Owner John W. Duncan Address Joplin, Mont.  
Driller \_\_\_\_\_ Address \_\_\_\_\_  
Date Started \_\_\_\_\_ Date Completed Oct. 25, 1961  
Location: Sec. 29 T. 37 R. 7  $\frac{1}{4}$  sec. SESW

Type of well Dug 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 Road culvert Size 30" x 16"

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: Bailed 18 gallons per minute or 1080 gallons per hour

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

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

(over)

## Log of Well

[illegible]

Form No. 18  
8-60

#3

30

T. 37 R. 7

County Liberty

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
DEC 27 1961

WATER WELL LOG

STATE ENGINEER

x		

Owner John W. Duncan Address Joplin, Montana

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

Date Started \_\_\_\_\_ Date Completed Sept 15, 1949

Location: Sec. 30 T. 37 R. 7  $\frac{1}{4}$  sec. NESE

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

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

Casing: \_\_\_\_\_ ft. to 64' ft. Type Oil well Size 5" I.D.

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: Bailed 2600 gallons an hour

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

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

(over)



## Log of Well

[illegible]

Form No. 18  
8-60

T. 37 R. 7

County Liberty

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
DEC 27 1950

WATER WELL LOG

STATE ENGINEER

	X	

Owner John W. Duncan Address Joplin, Montana

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

Date Started \_\_\_\_\_ Date Completed Sept 20, 1950

Location: Sec. 30 T. 37 R. 7  $\frac{1}{4}$  sec. NWSE

Type of well Drilled 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 12 gauge gal Size 12" Diameter

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: Bailed 2600 gallons an hour

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

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

(over)

## Log of Well

[illegible]

Form No. 18  
8-60

#8

31

T. 37 R. 7

County Liberty

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
OCT 27 1961

STATE ENGINEER

WATER WELL LOG

		x

Owner John W. Duncan Address Joplin, Montana

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

Date Started \_\_\_\_\_ Date Completed Sept 10, 1945

Location: Sec. 31 T. 37 R. 7  $\frac{1}{4}$  sec. SESE

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 Galv. Water Well Size 5"

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: Bailed 1100 gallons per hour

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

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

(over)

## Log of Well

[illegible]

Form No. 18  
8-60

#1

33

T. 37 R. 7

County Liberty

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
DEC 27 1932

WATER WELL LOG

STATE ENGINEER

x			

Owner John W. Duncan Address Joplin

Driller \_\_\_\_\_ Address Montana

Date Started 2nd of Nov. Date Completed Dec. 27, 1932

Location: Sec. 33 T. 37 R. 7  $\frac{1}{4}$  sec. NWSW

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

Water use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☒

Industrial ☐ Drainage ☐ Other \_\_\_\_\_

Casing: 92' ft. to \_\_\_\_\_ ft. Type Oil well Size 5" I.D.

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: 8' from top feet.

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

Pumping water level 8' feet at 60 gal. per min.

How tested: bailer

Length of test 1 hour

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

Oil well casing using short joints on head end with heavy collars & a cutting shoe on head end. Hole was drilled a little smaller than casing.

Drove casing.

(over)

use well

[illegible]

Form No. 18  
8-60

#2

33

T. 37 R. 7  
County Liberty

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
DEC 27 1961

WATER WELL LOG

STATE ENGINEER

x		

Owner John W. Duncan Address Joplin, Montana  
Driller \_\_\_\_\_ Address \_\_\_\_\_  
Date Started \_\_\_\_\_ Date Completed Sept 10, 1949  
Location: Sec. 33 T. 37 R. 7  $\frac{1}{4}$  sec. NWSW

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

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

Casing: \_\_\_\_\_ ft. to 94.1 ft. Type Oil well Size 5" I.D.

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)

\* **Flowing well 60 gallons per minute**

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

[illegible]

File No. ....

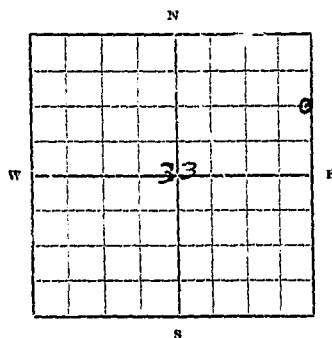
DUPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

T. 37 N 7 E 33  
County Liberty  
**RECEIVED**  
DEC 18 1963

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

1. Alice Duncan of Toplin  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 33 T. 37 R. 7  
Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based domestic use (household, livestock, irrigation)
3. Date or approximate date of earliest beneficial use; and how continuous the use has been approximate date of water well development, 1935. Use has been continuous since that date.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) Twenty 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 use is confined to the application of water for garden and yard irrigation.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Water is withdrawn from ground by pumping.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater approximate date of construction of water well development 1935.
8. The depth of water table Twelve 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 This is a dug well approximately six feet in diameter, and twenty feet deep.
10. The estimated amount of groundwater withdrawn each year 150,000 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.

Signature of Owner Alice Duncan

Date Dec 17, 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.

10103

84131

STATE OF MICHIGAN } ss.  
County \_\_\_\_\_  
Filed Dec. 17 1963  
at 11145 P. M.  
Aileen Greiner  
County Clerk  
By \_\_\_\_\_  
Fee \$ 2.00 Deputy

File No. ....

DUPLICATE

T. 37 N. R. 7 E. 34  
County Liberty

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

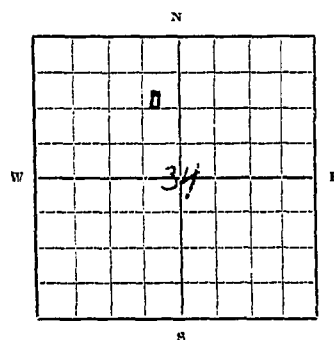
RECEIVED  
DEC 18 1963

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

STATE ENGINEER

1. Alice Duran, of Joplin,  
(Name of Appropriator) (Address) (Town)

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



N. 1/4 Sec. 34 T. 37 R. 7

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

2. The beneficial use on which the claim is based Domestic use (household, livestock)

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Approximate date of water well development, 1915. Use has been continuous on yearly basis since original development.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Twenty 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 Originally water was withdrawn by pumping, since original development was changed to a pit. Livestock have access to water surface.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Original well constructed in 1915, developed into a pit in 1956.

8. The depth of water table Eight 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 Original well approximately six feet in diameter, and twelve feet deep. Present pit is approximately 14 ft. deep with a bottom area 14 by 35 ft. with 1 1/2 : 1 side slopes and 3 : 1 end slopes.

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

Signature of Owner Alice Duran

Date Dec 17, 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 Quaduplicate for the Appropriator.

10104

84132

STATE OF MONTANA  
County of \_\_\_\_\_  
Filed Dec. 17 1963  
at 11:45 A M  
C. E. Green  
County Clerk  
By \_\_\_\_\_ Deputy  
Fee \$2.00

## GROUNDWATER INDEX

Page . of

County Liberty

Twp. 36 N

Rge. 45

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
1	Dolezal, Valerian	GW 3	SH 190	
2	" "	GW 4	SH 180	
2	" "	- 4	SH 187	
4	Thompson, Robert	GW 3	SH 227	
5	Thompson, Robert L.	GW 4	SH 218	
5	Anderson, Louise - Allen	- 4	SH 209	
5	Seboal Dist. # 27	GW 4	SH 239	
6	Bogdwin, Ella (Mrs.)	- 4	SH 157	
6	" "	4	SH 157	
6	Murray, Barnham	- 4	SH 226	
6	Caldwell, Paul B.	- 4	SH 324	
6	Staggen, Allen	GW 3	SH 251	
6	" "	" 3	SH 252	
6	" "	" 3	SH 253	
6	" "	GW 3	SH 315	
6	" "	GW 4	SH 249	
7	Laney, Troy	Release	—	
8	Staggen, Allen	GW 4	SH 250	
9	Thompson, Robert	GW 3	SH 224	
9	" "	" 3	SH 225	
9	" "	" 3	SH 226	
10	" "	" 3	SH 228	
10	" "	" 3	SH 229	
11	Dolezal, Valerian	" 3	SH 191	
15	Thompson, Robert	" 3	SH 230	
16	" " L.	" 3	SH 360	
17	Laney, Troy	GW 4	SH 222	
31	Hanson, Quinton & Co.	" 11 100	—	
31	" "	" " "	—	
36	Fritz, Leonard & Raymond	GW 3	SH 276	
31	" "	" 3	SH 362	

GW3

File No. ....

T 36 N R 4 East

DUPLICATE

County LIBERTY

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 October, 1946Owner Valerian Dolezal Address Whitlash, Mont.Contractor (if any) NoneAddress of Contractor NoneDate Started July 1, 1963 Date Completed Oct. 24, 1963

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

collection box - underground pipe line -water tank - underground overflow -water is spring surface water

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

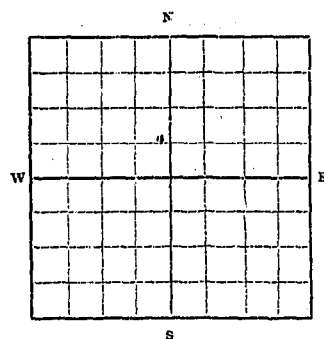
8,000 gallons per day, use is24 hrs. dailySignature of Owner Valerian J. DolezalDate Dec. 20, 1963

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 School of Mines and Quadruplicate for the Appropriator.

SE  $\frac{1}{4}$  NW Sec. 1 T 36 N R 4 E.

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

12285

84190

STATE OF MONTANA } ss.  
County of \_\_\_\_\_  
Filed Dec. 20 1963  
at 4:50 P. M.  
William H. Green  
County Clerk  
By \_\_\_\_\_ Deputy  
Eas 250



GW

Approved Stock Form—State Publishing Co., Helena, Montana—38687

File No. ....

T. 36 N R 4 East

DUPLICATE

County LIBERTY

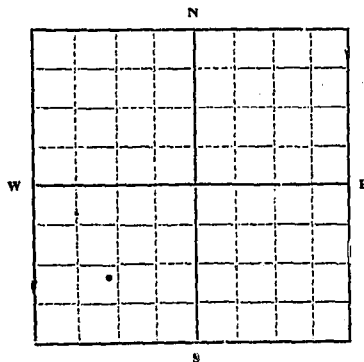
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 26 1963  
STATE ENGINEER

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, Valerian Dolezal, of Box 75 Whitlash  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

SW  $\frac{1}{4}$  SW Sec. 2 T36N R4 E.

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

2. The beneficial use on which the claim is based  
Watering livestock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been October, 1946 the  
use has been daily and continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 mt. gallons per minute  
per day
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  
Livestock
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
spring surface water collected  
in resivor
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater October, 1946
8. The depth of water table Unknown
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Water held in resivor
10. The estimated amount of groundwater withdrawn each year 250,000 gallons
11. The log of formations encountered in the drilling of each well if available  
No well
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 Valerian J. Dolezal  
Date Dec. 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.

12283

84188

STATE OF MONTANA } ss.  
County of Hill.

Filed Dec. 20 1913

at 4:50 o'clock P. M.

Allen Greene  
County Clerk

By \_\_\_\_\_ Deputy

Fee \$ 2.00

File No. ....

T. 36 N. R. 4 East

DUPLICATE

County LIBERTY

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

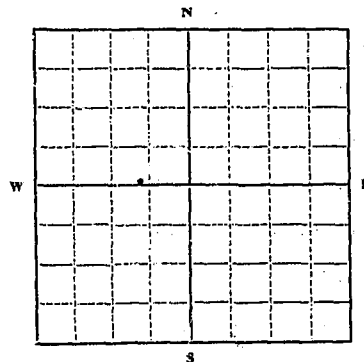
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
DEC 26 1963

STATE ENGINEER

1. Valerian Dolezal of Box 75 Whitlash  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

SE  $\frac{1}{4}$  NW Sec. 2 T36N R.4 E

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

2. The beneficial use on which the claim is based Stock  
water, irrigation, future domestic use
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been October, 1946, the  
use has been daily and continuous
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 5 gallons per minute
5. If used for irrigation, give the acreage and description of the lands  
to which water has been applied and name of the owner thereof  
10 acres in the SE  $\frac{1}{4}$  of NW  $\frac{1}{4}$  of Sec. 2  
T. 36 N. R. 4 E. - Appropriator and brothers  
d/b/a Dolezal Brothers
6. The means of withdrawing such water from the ground and the  
location of each well or other means of withdrawal spring surface water collected  
in resivor
7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater October, 1946
8. The depth of water table Unknowns
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 Water held in resivor the size  
is approximately 10 acre feet
10. The estimated amount of groundwater withdrawn each year 250,000 gallons
11. The log of formations encountered in the drilling of each well if available  
No well
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 Valerian J. DolezalDate Dec. 22, 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.

84189

STATE OF INDIANA 185.  
County of \_\_\_\_\_  
Filed Dec. 20 1963  
at 4:50 P. M.  
Richard G. Grier  
By \_\_\_\_\_ Deputy  
Fee \$ 2.00