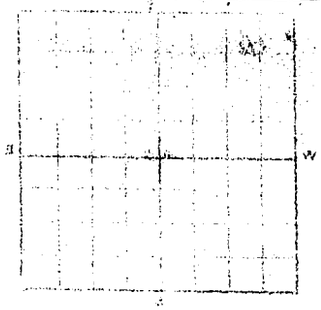


Indicate point of appropriation and place of use. If possible, each small square represents 10 acres.

346548

STATE OF MONTANA }
COUNTY OF CHOUTEAU } ss

Filed December 23 1963
at 8:00 o'clock A.M.
George W. Harvey
County Clerk
By Violet M. Jewell
Deputy
Fee $2.00

G. 4

File No.....

T....23.....R....15.....

DUPLICATE

County.....Choteau.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

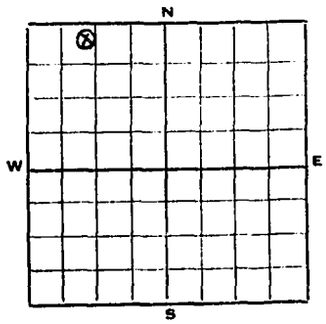
RECEIVED
JAN 7 1964
STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. .....Edward W. Moes....., of .....Big Sandy.....
(Name of Appropriator) (Address) (Town)

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



NW 1/4..... Sec. 2..... T. 23 R. 15E

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 Stockwater and farmstead use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1957
Continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) .....Approx. 25 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 .....
No

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater .....Not known exactly--spring 1957

8. The depth of water table .....25 ft.

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

10. The estimated amount of groundwater withdrawn each year .....Approx. 100 gals per day-36500 gal.

11. The log of formations encountered in the drilling of each well if available .....Not available

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

Signature of Owner.....Edward W. Moes

Date.....20 Dec. 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 School of Mines and Quadruplicate for the Appropriator.

25942

346549

STATE OF MONTANA,
COUNTY OF CHOUTEAU, } ss.

Filed December 23 1963

at 5:00 o'clock P M

George W Harvey
County Clerk

By Doris M Jewell Deputy

Fee $ 2.00 Paid

W 4 RECEIVED

File No. ..... JUN 28 1973 T. 23 R. 15 20

ORIGINAL County Chouteau

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

371242
June 27, 1973
4:00 P.M.

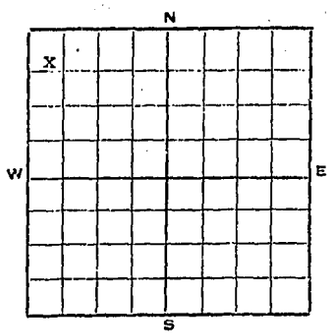
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. Edward Moes, of Big Sandy
(Name of Appropriator) (Address) (Town)

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



NW 1/4 NW 1/4 Sec. 20 T. 23 R. 15

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

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

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

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1957

8. The depth of water table 50 ft deep

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 50 ft deep w/pump

10. The estimated amount of groundwater withdrawn each year

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

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 unknown

Signature of Owner Edward Moes

Date June 25, 1973

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.

53,987

#37242

21

T. 23 R. 15

County Chouteau

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner L. S. Clinard Address Big Sandy

Driller E. L. Flood Address Great Falls

Date Started 10/28/54 Date Completed 11/2/54

Location: Sec. 21 T. 23 R. 15 ¼ sec. NW SW ¼

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

Water use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 4 ft. Type Steel Size 6 in.

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 26 to ft. 40 Ft. to ft.

Type of screen or perforations Slotted

Static Water level, for non-flowing well: 25 feet.

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

Pumping water level 30 feet at 6 gal. per min.

How tested: Bailer Pump

Length of test 10 min 12 hrs

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

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
Top	35	Clay & Small Rocks
35	40	Gravel with one gal. water per min
40	90	Clay & Sand Rock
90	91	Solid Rock

W 3

Approved Stock Form—State Publishing Co., Helena, Montana—39089

22

File No.....

T. 23 R. 15 E

DUPLICATE

County Chouteau

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 7 1964
ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1915

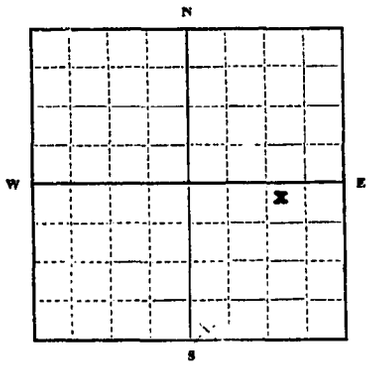
Owner Ethel K. and Elmer G. Lidstone Address Big Sandy, Montana

Contractor (if any) None

Address of Contractor None

Date Started 1915 Date Completed 1915

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable Spring dug out 6 feet and 4'x 4' box inserted 6' deep with culvert in and plastic pipe to troughs



NW ¼ SE¼ Sec. 22 T. 23 R 15 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

500 gal per day 7 months a year

Elmer G. Lidstone

Signature of Owner Ethel M. Lidstone

Date 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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

25968

#346587

STATE OF MONTANA, }
COUNTY OF CHOUTEAU, } ss

Filed DEC 23 1963 19__

at 2:00 o'clock P M

Georgia A Harvey
County Clerk

By _____ Deputy

Fee $ 2.00 Paid

G. 1

File No.....

DUPLICATE

T. 23 R. 15 E

County Chouteau

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

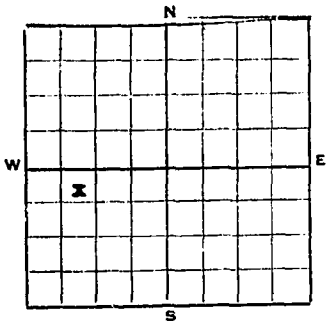
RECEIVED
JAN 7 1964
STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. Ethel M. and Elmer G. Lidstone, of Big Sandy,
(Name of Appropriator) (Address) (Town)

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



NW 1/4 SW 1/4 Sec. 23 T23N R15E

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
Stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1916, used in dry years when springs go dry

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Four 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
Gas engine or tractor with pump jack

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1915

8. The depth of water table 363 Feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled Well with 4 inch casing 663 feet deep

10. The estimated amount of groundwater withdrawn each year in dry years 182,500 gal

11. The log of formations encountered in the drilling of each well if available Not available

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

Signature of Owner Ethel M. Lidstone Elmer G. Lidstone

Date December 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 School of Mines and Quadruplicate for the Appropriator.

25969

346588

STATE OF MONTANA,
COUNTY OF CHOUTEAU. } ss.

Filed DEC 23 1963 19...

at 2:00 o'clock P. M.

Grace W. Harvey
County Clerk

By ..... Deputy

Fee $ 2.00 Paid

W 3

Approved Stock Form—State Publishing Co., Helena, Montana—39089

23

File No.....

T. 23 R. 15 E.

DUPLICATE

County Chouteau

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 7 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1916

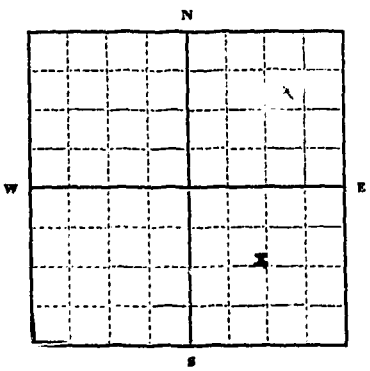
Owner Elmer G. and Ethel M. Lidstone Address Big Sandy Montana

Contractor (if any) none

Address of Contractor none

Date Started 1916 Date Completed 1916

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring dug out 6 feet and 4'x4' box inserted 6' deep with culvert and pipe to troughs



NW ¼ SE ¼ Sec. 23 T. 23N R. 15E

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

Fill 500 gal tank in approximately 12 hours continuous use

Signature of Owner Elmer G. Lidstone
Ethel M. Lidstone

Date 12-20-63

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.

25966

#346585

STATE OF MONTANA, }
COUNTY OF CHOUTEAU, } ss

Filed DEC 23 1963 19

at 2:00 o'clock P M

George W Harvey
County Clerk

By _____ Deputy

Fee $ 2.00 Paid

Approved Stock Form—State Publishing Co., Helena, Montana—39089

23

File No.....

T. 23 R. 15 E

DUPLICATE

County Chouteau

RECEIVED
JAN 7 1964
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1912

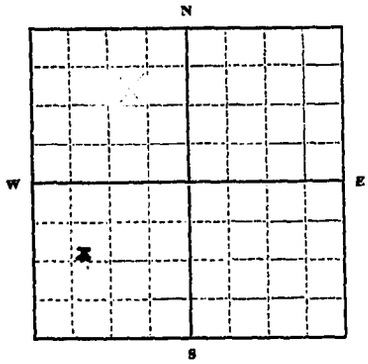
Owner Elmer G. and Ethel M. Lidstone Address Big Sandy, Montana

Contractor (if any) None

Address of Contractor None

Date Started 1912 Date Completed 1912

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring dug out 6 feet and 4'x4' box inserted 6' deep with culvert and pipe to troughs



NW ¼ SW ¼ Sec. 23 T. 23N R. 15E

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. Gallon a minute continuous use

Elmer G. Lidstone
Ethel M. Lidstone

Signature of Owner

Date December 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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

25967

346586

STATE OF MONTANA, }
COUNTY OF CHOUTEAU, } ss.

Filed DEC 23 1963 19__

at 2:00 o'clock P M

Glenpaul Harvey
County Clerk

By _____ Deputy

Fee $ 2.00 Paid

GW 3

24

File No.....

T. 23 R. 15 E

DUPLICATE

County. Chouteau

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 7 1964
STATE ENGINEER

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1941

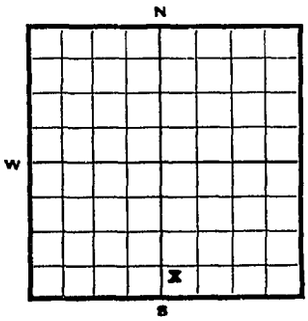
Owner Ethel M. Lidstone

Address Big Sandy, Montana

Contractor (if any) none

Address of Contractor none

Date Started unknown Date Completed unknown



SE 1/4 SW 1/4 Sec. 24 T 23 N R 15 E

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

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Flowing spring flowing into south fork of Eight Mile Coulee

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 Piped to house and troughs 1000 gallons per day

Signature of Owner Ethel M. Lidstone

Date December 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.

2597°

STATE OF MONTANA } ss
COUNTY OF CHOUTEAU.

Filed DEC 23 1963 19__

at 2:00 o'clock P M

George W Harvey
County Clerk

By _____ Deputy

Fee $ 2.00 Paid

GW 3

27

File No..... T. 23 R. 15

DUPLICATE County Chouteau

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 7 1964
STATE ENGINEER

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Previous to 1910

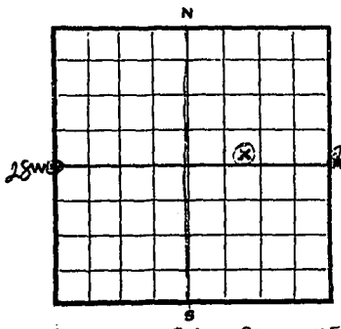
Owner Edward W. Moes

Address Big Ks Sandy, Montana

Contractor (if any) None

Address of Contractor "

Date Started Not known Date Completed nor known



SW¼NE¼ Sec. 27 T. 23 R. 15 E

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

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring--8" down ' where the water comes out of sand rock. It is pumped up into a tank to be available as stock 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 The spring is used for watering stock at all times winter and summer. The amount available is 2000 to 3000 gal. per day. The method used to measure was to simply pump it into a tank of known capacity.

Signature of Owner Edward W. Moes

Date 20 Dec. 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.

26081

346733

STATE OF MONTANA, }
COUNTY OF CHOUTEAU, } ss.

Filed DEC 27 1963 19

at 8:00 o'clock A M

County Clerk

By Deputy

Fee $ 2.00 Paid

W 4

File No. .....

ORIGINAL

T. 23 R. 15

County Chouteau

June 27, 1973
4:00 P.M.

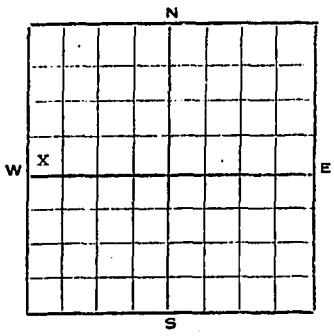
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. Edward Moes, of Big Sandy
(Name of Appropriator) (Address) (Town)

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



SW 1/4 NW 1/4 Sec. 31 T. 23 R. 15

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

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

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

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1958

8. The depth of water table 30 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 400 ft. deep with pump

10. The estimated amount of groundwater withdrawn each year

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

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
unknown

Signature of Owner Edward Moes

Date June 25, 1973

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.

53,990

Fig. a

2 cm

STATE OF MONTANA
OFFICE OF THE GOVERNOR

Date: June 1, 19

4100 a

2 cm

GROUNDWATER INDEX

County Choteau Twp. 23 N Rge. 16 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
6	Wallace Hoge	GW3	346659	
19	Ethel M. Lidstone	GW3	341584	
25	St of Mt. Fish & Game Dept.	GW2	362638	
25	County of Choteau	GW2	363490	
25	S. Warren Holley	GW4	371585	

GW 3

File No.....

DUPLICATE

T. 23 R. 16

County Chouteau

RECEIVED
JAN 7 1964
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1953

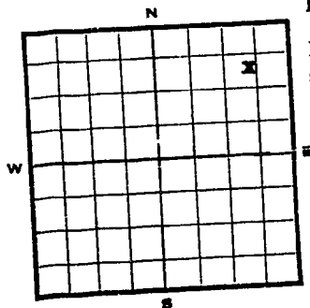
Owner Wallace Hoge

Address Big Sandy, Montana

Contractor (if any) None

Address of Contractor None

Date Started 1953 Date Completed 1953



Lot 1 Sec. 6 T. 23 R. 16

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

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Dug Out Gravity Flow-- 8 ft x 16 ft by 4 ft. --1¼ " Pipe outlet -- 4 ft of water -- Planked and curbed-- used for livestock 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 2 ½ gals per minute-- flows into a stock tank-- used year around

Signature of Owner Wallace Hoge

Date December 23, 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.

26023

#346659

STATE OF MONTANA, }
COUNTY OF CHOUTEAU, } ss.

Filed DEC 26 1963 19__

at 8:30 o'clock a M

Geraldine Hawley
County Clerk

By Viola M. Jewell
Deputy

200 Paid

GW 3

19

File No.....

T. 23 R. 16 E.

DUPLICATE

County Chouteau

RECEIVED
JAN 7 1964
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1916

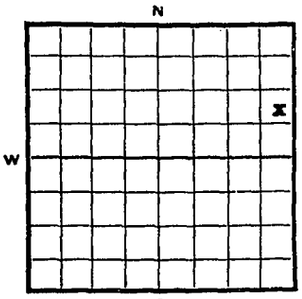
Owner Ethel M. Lidstone

Address Big Sandy, Montana

Contractor (if any) none

Address of Contractor none

Date Started none Date Completed none



SE1/4 NE1/4 Sec. 19 T23N R16E

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

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring dug out 6 feet and 4'x4' box inserted 6' deep with culvert and pipe to troughs

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

600 gallons per day continuous use

Signature of Owner Ethel M. Lidstone

Date 12-20-63

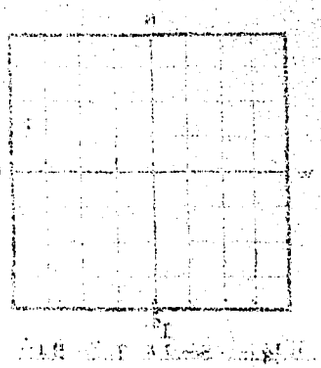
This form to be prepared by contractor (if any), otherwise by the owner.

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.

25965



#346984

STATE OF MONTANA }
COUNTY OF CHOUTEAU. } ss

Filed DEC 23 1963 19__

at 2:00 o'clock P.M

Lenore W Harvey
County Clerk

By _____ Deputy

Fee $ 2.00 Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4855.

File No.....

T 23N R 16E

DUPLICATE

County Choteau

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 State of Montana Fish & Game Dept. Address Helena, Montana 1173 6th St. No.

Driller Hi-Line Drilling Service Address Havre, Montana

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

Date well started June 10, 1970 Date completed June 19, 1970

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

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☒ Recreation Park

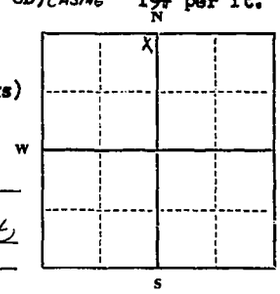
Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

LOG

0	Top of Ground
5 to	(Elev. above sea level.....) Sandy & silty brown loam
15	Sandy & silty brown clay
16	Soft grey clay
19	Brown sand & gravel-Water-approx. 15 GPM. Cased off due to shallow depth and high alkali content.
22	Brown clay
25	Brown clay & gravel mix
34½	Sand & gravel-water Exceeding 25 GPM.
35	Dark grey clay
34	Show exact depth of bottom.

Note: Drilled hole to 12" diameter to 12 ft. level to insure adequate space for grouting. After encountering alkali water at 16-19 ft. level, 8 5/8" casing was installed to case off vein. This casing was used for entire depth of well. Drilled through lower gravel vein by 34½ ft. & went into dark grey clay with possibility of shale directly below clay. Perforated permanent (6 5/8" OD) CASING and installed it to 34 ft. level without drive shoe. Pulled 8 5/8" casing back to 25½ ft. level (See remarks)

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
12"		0	12			
8 5/8"	8 5/8"OD (Temporary shut-off casing)	0	34½			
	6 5/8"OD .280 wall 19# per ft.	3 ft. above ground level	34"	1/8 x 4" slotted	26	34



NW¼ NE ¼ Sec. 25 T. 23N R. 16E

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

Static Water Level for non-flowing well 6½ feet.

Shut-in Pressure for Flowing Well Not applic.

Pumping Water Level 16 feet at 26 gal. per minute.

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

How Tested Test pump

Length of Test 4 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) After sand & gravel vein from 25-34½ ft. level was developed sufficiently, the 8 5/8" casing was raised to 25' level. Cement grout was then placed between 8 5/8" & 6 5/8" casing in continuous operation to surface as 8 5/8" casing was pulled out. (Continue on reverse side)

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

Pumping equipment consists of a Monitor 1 HC drinking fountai pump, with 21 ft. (2 cut lengths) of 1¼" galv. drop pipe (with 21 ft. of No. 0 hollow rod) above cylinder, a Monitor 3" brass-lined cylinder, and 13½ ft. of tail pipe below cylinder.

Doc. No. 362638
Filed for record this 6 day of August A. D. 19 70, at 11:00 o'clock A M.

46
Driller's License Number

Herbert Greier
Driller's Signature.

47328

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.

#362638

STATE OF MONTANA, }
COUNTY OF CHOUTEAU, } ss.

Filed Aug 6 1970

at 11:00 o'clock a.m.

Margaret Harvey
County Clerk

By Violet M Jewell Deputy

Fee $ _____ Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4855.

File No. 363490

DUPLICATE

RECEIVED JAN 20 1971

T. 25N R. 16E

County Choteau

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)

LOG

	Top of Ground
	(Elev. above sea level.....)
	Lohse (PN) Ferry Operator's Residence on North Side of River
0 to 2	Sandy soil
2	Sandy & silty brown loam
8	Brown sand (Dry)
17	Sandy brown clay
20	Brown sand & silty-show of water
22	Soft brownish-grey clay
24	Sand-Some gravel-Water, approx. 10 GPM.
26	Gravel-(Small to 1½" diameter) & sand. Water yield increased to over 15 GPM by baler test
26	Show exact depth of bottom.

Owner County of Choteau Address Fort Benton, Montana

Driller Hi-Line Drilling Service Address Havre, Montana

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

Date well started June 19, 1970 Date completed June 20, 1970

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

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

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 5/8	6 5/8"OD. 13#/Ft. .188 wall Steel	3 feet above ground level	26	No Perforations. Water coming in thru bottom of drive collar at 26 foot level.		

Doc. No. 84-2490
Filed for record
this 19 day of January
A. D. 19 71, at 11:20
o'clock A. M.

N

E

S

Lot 7 aka
Pt. of NENW Sec. 25 T. 25N R. 16E

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

Static Water Level for non-flowing well 6½ feet.

Shut-in Pressure for Flowing Well Not appl.

Pumping Water Level 20 feet at 18 gal. per minute.

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

How Tested Test pump

Length of Test 3 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Drilling mud placed around outside of casing back to approx. 10 feet from ground level. Clay soil filled in from 10 ft. back to surface.

(Continue on reverse side)

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

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

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

46
Driller's License Number

Herbert Greer
Driller's Signature

* SEE CORRECTED COPY

48009

STATE OF MONTANA, }
COUNTY OF CHOUTEAU, } ss.

Filed JAN 19 1971 19

at 11:30 o'clock A M,

George W Harvey
County Clerk

By ..... Deputy

Fee $ —— Paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—48557

File No. 363490

T. 23N. R. 16E.

ORIGINAL 363517 - Corrected Groundwater App.

County Choteau

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.....)

	Lohse (PN) Ferry Operator's Residence on North Side of River---
0 to 2	Sandy soil
2	Sandy & silty brown loam
8	Brown sand (Dry)
17	Sandy brown clay
20	Brown sand & silty-show of water
22	Soft brownish-grey clay
24	Sand-Some gravel-Water, approx. 10 GPM.
26	Gravel-(Small to 1½" diameter) & sand. Water yield increased to over 15 GPM by baler test

Owner County of Choteau Address Fort Benton, Montana

Driller Hi-Line Drilling Service Address Havre, Montana

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

Date well started June 19, 1970 Date completed June 20, 1970

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

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

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 5/8	6 5/8"OD. 13#/Ft. .188 wall Steel	3 feet above ground level	26	No Perforations. Water coming in thru bottom of drive collar at 26 foot level.		

Doc. No. 363490
Filed for record
this 19 day of January
A. D. 19 71, at 11:20
o'clock A. M.

N

E

S

Static Water Level for non-flowing well 6½ feet.

Shut-in Pressure for Flowing Well Not appl.

Pumping Water Level 20 feet

at 18 gal. per minute.

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

How Tested Test pump

Length of Test 3 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Drilling mud placed around outside of casing back to approx. 10 feet from ground level. Clay soil filled in from 10 ft. back to surface.

(Continue on reverse side)

Lot 7 aka
Pt. of NENW¼ Sec. 25 T. 23N. R. 16E

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

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).

26 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.

46
Driller's License Number

Herbert Greier
Driller's Signature.

48059

STATE OF MONTANA,
County of Chouteau } ss.

Hope W Haury Clerk & Rec. having first been duly sworn, depose and say that he is of lawful age and Agent of the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name is subscribed thereto, as the appropriator and claimant, that he know the contents of said foregoing notice and that the matters and things therein stated are true.

Chouteau County
By Hope W Haury

Subscribed and sworn to before me, this 19 day of Jan, 1971

A Evan Anderson
Notary Public for the State of Montana.
County Attorney Chouteau County
Residing at Fort Benton

My Commission expires 19

JAN 26 1971

363440
(23)
25 - 23 - 16

STATE OF MONTANA, } ss.
COUNTY OF CHOUTEAU,
Filed January 19 1971
at 4:20 o'clock P. M.
Hope W Haury
County Clerk
By Deputy
Fee $ — Paid

25 - 23 - 16
CORRECTED GROUNDWATER APP.
363517

STATE OF MONTANA,
COUNTY OF CHOUTEAU,
Filed JAN 25 1971
at 2:00 o'clock P. M.
Hope W Haury
County Clerk
By Deputy
Fee $ — Paid

363440

GW 4

File No. 371585 June 29, 1973 4:00 p.m.

DUPLICATE

T. 23 R. 16

County CHOUTEAU

25

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED AUG 2 1973

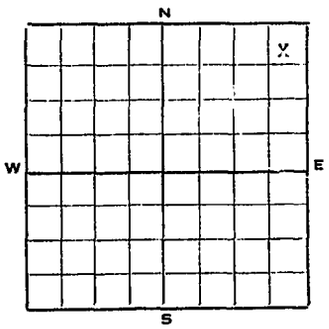
DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. S. Warren Halley, of Big Sandy,
(Name of Appropriator) (Address) (Town)

County of Chouteau State of Montana

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



NE 1/4 NE 1/4 Sec. 25 T. 23 R. 16

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 and domestic

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1959

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

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

8. The depth of water table 10 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 15 foot well - concrete lined

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

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

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

Signature of Owner S. Warren Halley

Date June 28, 1973

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.

56745

#371585

STATE OF MONTANA, } ss.
COUNTY OF CHOUTEAU, }

Filed JUN 19 19__.

at 4:00 o'clock P. M.

George W Gowry
County Clerk

By _____ Deputy

Fee $ _____ Paid

GROUNDWATER INDEX

County Chouteau Twp. 22 N Rge. 6 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
9	Webb Resources, Inc.	Release Agreement	No #	
10	Frank L. Flank	GW3	346813	
29	Webb Resources, Inc	Release Agreement	No #	

H. Highwood

9

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

THOMAS L. JUDGE, GOVERNOR
GARY WICKS, DIRECTOR

MEMBERS OF THE BOARD
JOSEPH W. SABOL, CHAIRMAN
DEAN HANSON
RILEY OSTBY
HERBERT HUENNEKENS

449-2611
325 FULLER AVENUE
P. O. BOX 217
HELENA, MONTANA 59601

OIL AND GAS CONSERVATION DIVISION
DONALD E. CHISHOLM
ACTING ADMINISTRATOR

June 7, 1973

RECEIVED
JUN 8 1973
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

Water Conservation Board
Water Resources Engineer
Sam W. Mitchell Building
Helena, Montana 59601

Dear Sir:

Enclosed you will find a copy of a release agreement for the utilization of a fresh water well.

Operator Webb Resources Inc.

Lease Name Bough

Well No. 9-16 Section 9, Township 22 North, Range 6 East
Chouteau County

Yours very truly,

Donald E. Chisholm
Administrator

DEC/ml

cc: Mr. W. Bond
Bureau of Mines and Geology
Butte, Montana 59701

Address _____

APPROVED BY:

Board of Oil and Gas Conservation

Julian C. Smith

Petroleum Engineer, ~~Geologist, or Administrator~~

Dated: June 3, 19 72

53410

JUN 1973
RECEIVED
OIL & GAS CONS. COMM.
STATE OF MONT.
SHELBY

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

RECEIVED 1973 OIL & GAS CONS. COMM. STATE OF MONT. HELENA

RELEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS, that I, Inne Bough

Highwood of the County of Chouteau

in the State of Montana, am the owner of the hereinafter described land upon which a well for oil or gas was drilled, to-wit:

Operator Webb Resources Inc.

Lease Name Bough

Well No. 9-16 Sec. 9, Twp. 22N, Rge. 6E

The well is located 660 feet S/N of the South

line and 660 feet E/W of the East line.

That, in accordance with Regulation 233.6, Order No. 1-1, November 30, 1953, I do hereby notify the Board of Oil and Gas Conservation of the State of Montana of my desire to utilize said well as a fresh water well; and, that if such utilization is approved, I do hereby release and discharge the operator hereinabove named from any further work or responsibility in relation to the plugging of said well.

Water Use: Domestic X Municipal Stock Other

Industrial ____ Drainage ____ Irrigation ____

Producing Depth 1200 Producing Formation Madison

Yield of well ____ Annual Withdrawal ____

WITNESS my hand and seal this 22nd day of May, 1973.

Stephen D Morse
My Commission Expires
8-8-76

Inne Marie Bough (L.S.)
Landowner

Address ____

IN THE PRESENCE OF:

____ Address ____

____ Address ____

APPROVED BY:

Board of Oil and Gas Conservation

Jackson E. Smith
Petroleum Engineer, ~~Geologist, or Administrator~~

Dated: June 5, 1972

53410

GW 3

Approved Stock Form—State Publishing Co., Helena, Montana—42199

10

File No.....

T. 22 N. R. 6 East.

DUPLICATE

County Chouteau

RECEIVED
JAN 7 1964
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1944.

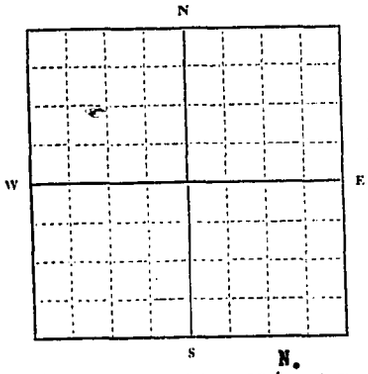
Owner Frank L. Florek Address Belt, Montana.

Contractor (if any) None.

Address of Contractor None.

Date Started None. 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. Natural Gravity Spring. Depth not known and not investigated for fear of disrupting the flow thereof and killing said spring.



NW ¼ Sec. 10 T. 22 N. R. 6 East.

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. Not used presently. Saved for eventual building site. Situate in small coulee and kind of swampy like. Hard to determine quantity developed but appears in comparison with other springs for possible 35 to 40 gallons per minute.

Signature of Owner Frank L. Florek

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.

26143

346813

COUNTY OF CLOUD, PEAC.

Filed DEC 30 1963 In

at 8:00 o'clock A M

County Clerk

By _____ Deputy

Fee $ 2.00 Paid

Eng Urquhart Chouteau Coun 29

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

THOMAS L. JUDGE, GOVERNOR
GARY WICKS, DIRECTOR

449-2611
325 FULLER AVENUE
P. O. BOX 217
HELENA, MONTANA 59601

OIL AND GAS CONSERVATION DIVISION
DONALD E. CHISHOLM
ACTING ADMINISTRATOR

July 12, 1973

Department of Natural Resources and Conservation
Water Resources Division
Sam W. Mitchell Building
Helena, Montana 59601

Attention: Water Resources Engineer

Dear Sir:

Enclosed you will find a copy of a release agreement for the utilization of a fresh water well.

Operator Webb Resources, Inc.

Lease Name Urquhart

Well No. 29-13 Section 29, Township 22 North, Range 6 East

Yours very truly,

Donald E. Chisholm
Administrator

DEC/ml

cc: Mr. W. Bond
Bureau of Mines and Geology
Butte, Montana 59701

APPROVED BY:

Oil and Gas Conservation Commission

Petroleum Engineer, Geologist, or Executive Secretary

Dated: 7-10, 1973

56160

29

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA

RECEIVED JUL 1973 OIL & GAS CONS. COMM. STATE OF MONT. HELENA

RECEIVED OIL & GAS CONS. COMM. STATE OF MONT. SHELBY

RELEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS, that I, _____ of the County of _____ in the State of Montana, am the owner of the hereinafter described land upon which a well for oil or gas was drilled, to-wit:

Operator [redacted]

Lease Name [redacted]

Well No. [redacted] Sec. [redacted], Twp. [redacted], Rge. [redacted]

The well is located [redacted] feet S/N of the [redacted] line and [redacted] feet E/W of the [redacted] line.

That, in accordance with Regulation 233.6, Order No. 1-1, November 30, 1953, I do hereby notify the Oil and Gas Conservation Commission of the State of Montana of my desire to utilize said well as a fresh water well; and, that if such utilization is approved, I do hereby release and discharge the operator hereinabove named from any further work or responsibility in relation to the plugging of said well.

Water Use: Domestic X Municipal ____ Stock ____ Other ____
Industrial ____ Drainage ____ Irrigation ____

Producing Depth [redacted] Producing Formation [redacted]

Yield of well [redacted] Annual Withdrawal _____

WITNESS my hand and seal this [redacted] day of [redacted], 19[redacted].

[redacted]

Duane L. Urquhart
Mary E. Urquhart (L.S)
Landowner

Address _____

IN THE PRESENCE OF:

Samuel D. Hulse Address _____

_____ Address _____

APPROVED BY:

Oil and Gas Conservation Commission

Herbert D. Hadley

Petroleum Engineer, Geologist, or Executive Secretary

Dated: 7-10, 1973

56160

GROUNDWATER INDEX

County Chouteau Twp. 22 N Rge. 7 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
1	Birkland & Son, Inc	6W3	343075	
7	Wm Katzenberger	1960	334376	
7	J R. Katzenberger	6W2	No#	
8	Hazel & Jane Marie Helland	6W4	347114	
18	Selmer M. Helland	6W4	347115	

V 3

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

File No. .....

T. 22 N R. 7E

DUPLICATE

County Choteau

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 15 1963
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec 10 1962

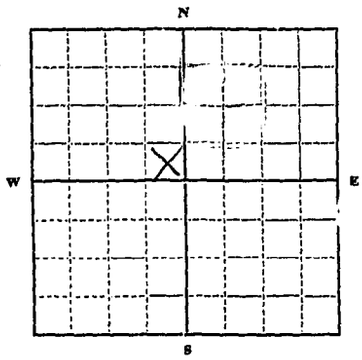
Owner Birkelad & Son Inc Address Fort Benton

Contractor (if any) none

Address of Contractor —

Date Started no work done Date Completed .....

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



S E¼ NW Sec. 1 T. 22N R. 7E

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 water is not being used at this time

Signature of Owner Birkelad & Son Inc. by Thomas L. Birkelad

Date Dec 10, 1962

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.

3302.

34 3075

STATE OF MONTANA
COUNTY OF CHOUTEAU ss.

Filed Jan 14 1963

at 10:15 o'clock A.M.

George W. Harvey
County Clerk

By Irma M. Hanson
Deputy

Fee $ 2.00

7

T. 22 R. 7

County Choteau

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
OCT 31 1960
STATE ENGINEER

WATER WELL LOG

7-22-7

			x

Owner Wm Katzenberger Address Fort Benton, Montana

Driller Wm Katzenberger Address Fort Benton, Montana

Date Started August 2nd, 1960 Date Completed Aug. 4th 1960.

Location: Sec. 7 T. 22 R. 7 ¼ sec. SW¼

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

Water use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]

Industrial [ ] Drainage [ ] Other:

Casing: 18 ft. to ft. Type Culvert Size 4 ft. x 18 ft.

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: 13½ ft. feet.

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

Pumping water level 12½ ft feet at 14½ ft gal. per min. 5

How tested: Pumped by electricity

Length of test One hour

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

Drilled into gravel and put in four foot culvert- eighteen foot long.

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
1	12	dirt & Clay
12	14	Quick sand
14	14½	Coarse gravel.

GW2

File No.....

T. 22 R. 73

DUPLICATE

County Chotean

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAR 15 1963
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of a Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner J. R. Katzenberger Address Highwood, Mont.

Driller C & L Drilling Address Fort Benton, Mont.

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

Date well started 9/30/62 Date Completed 10/1/62

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

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐

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

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

0 — top soil, some small gravel
20 — black critic shale, bent.
80 — shale, sandy shale, streaks sand bent, and soapstone
570 — grey clay, tan lime, shale
660 — hard sand, sandy shale
730 — shale, clay, bent., streaks sandy shale & iron pyrites
890 — hard grey sand, sandy shale
920 — red shale & bent. (top of Kootenai)
1120 — grey silkstone, red shale bent. hard sandy lime.
1170 — sandy lime, white course sand
1195 — hard lime, pyrites, chert & shells
1245 — lt. grey to white med course (third cat creek) soft sand then streaks shale
1305 — yellow shale (hard) (top of Morrison)

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
7 7/8"	4½" O.d.	0	1103			
6 3/4"	9½ black seamless	1103	1311	1 ft. slot	1239	1311

Static Water Level for non-flowing Well 60 feet.

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

Pumping Water Level 210 feet at 6 gal. per minute.

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

How Tested bailer Length of Test 4hrs.

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) .....

Larkin rig 21 casing anchor packer set at 1252'

N
W E
S

SW¼SW¼ Sec. 7 T. 22 R. 7E

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

Show exact depth of bottom.

58
Driller's License Number

C & L Drilling
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.

3913.

STATE OF MONTANA, }
COUNTY OF CHOUTEAU, } ss.

MAR 14 1963 19

9:45 o'clock A. M.

George W. Harris
County Clerk

By Irma M. Harris Deputy.

Fee $ 2.00 Paid

File No.....

DUPLICATE

T. 21 R. 7

County. Chouteau

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

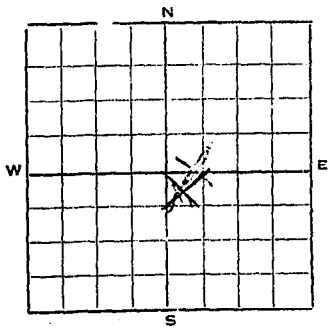
RECEIVED
JAN 7 1963
STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. Hazel + June Marie Helland, Highwood, Montana
(Name of Appropriator) (Address) (Town)

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



NW 1/4 SE Sec. 8 T. 21 R. 7

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

2. The beneficial use on which the claim is based Household use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been continuous from 1911

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof No

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1911

8. The depth of water table 50 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 One well 50 feet

10. The estimated amount of groundwater withdrawn each year For one house

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

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

Signature of Owner Hazel Helland
June Marie Helland

Date Dec. 31, 1963

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

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

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

26417

#347114

STATE OF MONTANA,
COUNTY OF CHOUTEAU, } ss.

Filed DEC 31 1969 19

at 4:30 o'clock P.M.

Margaret Hanson
County Clerk

By _____ Deputy

Fee: 2.00 Paid

GW. 2

File No.....

T. 22 R. 7 18

DUPLICATE

County.....

RECEIVED JAN 7 1964 STATE ENGINEER

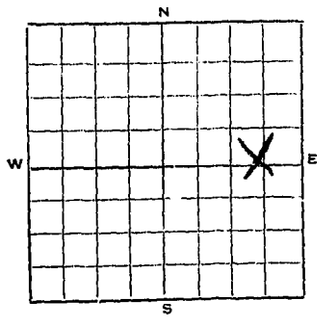
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

Selmer M. Helland, of Highwood Montana
(Name of Appropriator) (Address) (Town)

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



SE ¼ NE SE Sec. 18 T. 22 R. 7

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

2. The beneficial use on which the claim is based Household use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1956

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof No

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1956

8. The depth of water table 120 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 120 feet

10. The estimated amount of groundwater withdrawn each year For house use

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

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

Signature of Owner Selmer M. Helland

Date Dec. 31, 1963

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

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

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

26418

(Name of Appropriator) (Address) (Town)

County of ..... State of .....

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

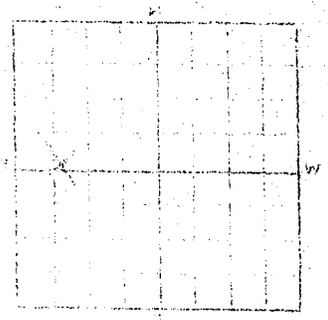
2. The last-listed use on which the claim is based .....

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

4. The amount of groundwater claimed (in miners inches or gallons per minute) .....

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

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



¼ ..... Sec. ..... T. ..... R. .....

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

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

8. The capacity of ....

9. If a dam is included, the type, height and capacity of the dam, and specifications of any other work for the withdrawal of groundwater .....

10. The estimated ....

11. The legal description ....

12. Such other information as shall be required by the board in accordance with the policy of this act, including a ....

#34715

STATE OF MONTANA }
COUNTY OF CHOUTEAU } ss.

Filed DEC 31 1968 19

at 4:30 o'clock P.M.

Clerk

By ..... Deputy

Fee $ 2.00 Paid

GROUNDWATER INDEX

County Chouteau Twp. 22N Rge. 8E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
22	Clinton C. Zanto	GW4	344645	
22	J. Burton Long	GW4	341413	
26	Mary E. Zanto	GW3	No #	
26	J. Burton Long	GW3	341414	
30	Tom C. Whisnant	GW2	347249	
35	Miles J. Evans & Herbert R. Pasha	GW3	347207	

G\ .
File No. .....

DUPLICATE

2

T. 22N R. 9E

County. Choutau

RECEIVED
JUL 11 1963
STATE ENGINEER

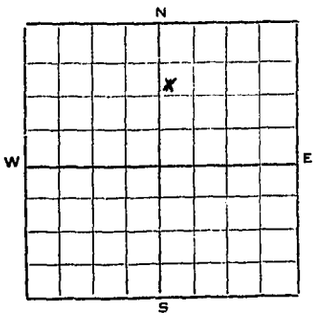
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. Clinton C. Zanto, of Highwood
(Name of Appropriator) (Address) (Town)

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



NW 1/4 NE Sec. 22 T. 22 R. 9

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

2. The beneficial use on which the claim is based
Stock water well

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1920
Most summers until - 1950
Intermittently since

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1 gal per minute.

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

6. The method of withdrawing such water from the ground and the location of the well or other means of withdrawal
Jeter Well Pump

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

8. The depth of water table 16 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Hand Dug - 5 ft across, 20 ft Deep

10. The estimated amount of groundwater withdrawn each year 5000 gal.

11. The log of formations encountered in the drilling of each well if available
Not available

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

Signature of Owner Clinton C. Zanto

Date June 30-1963

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 School of Mines and Quadruplicate for the Appropriator.

4991.

344945

STATE OF INDIANA)
COUNTY OF LAKE) ss.

Filed JUL 1 4 1963 19

9:20 o'clock A. M.

George W. Harvey
County Clerk

Irma M. Harris Deputy

Fee 2.00 Paid

File No.....

DUPLICATE

T. 22 N R. [illegible]

County Chouteau

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

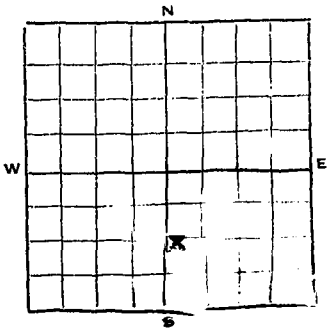
RECEIVED
STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. J. Burton Long, of Highwood, Montana
(Name of Appropriator) (Address) (Town)

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



SE 1/4 Sec. 22 T 22 R [illegible]

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

2. The beneficial use on which the claim is based Domestic and livestock

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

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

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

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

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

8. The depth of water table 20ft

9. So far as it may be available, the [illegible] and depth of each well or the general specifications of any other works for the withdrawal of groundwater drilled, 6" casing, 83'

10. The estimated amount of groundwater withdrawn each year 150,000 gals.

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

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

Signature of Owner J. Burton Long

Date 7-12-62

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 School of Mines and Quadruplicate for the Appropriator.

341413

Declaration Vested Groundwater Rights

J. Burton Long

-to-

The Public

STATE OF CALIFORNIA
COUNTY OF CONTRA COSTA ss

Filed JUL [illegible] 19[illegible]

at 4:00 o'clock P. M.

George W. Harvey
County Clerk

By Irma M. Harris Deputy

Fee $ 2.00 Paid

GW3

File No. very indefinite

DUPLICATE

T. 22 N R. 8 E 26

County Chouteau

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 15 1962
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1926

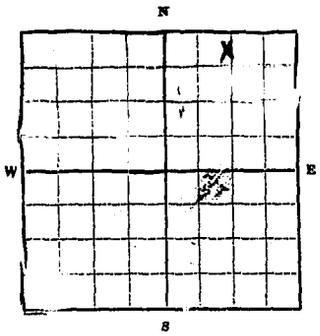
Owner Mary E. Banto Address Highwood Montana

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 where applicable Pump



NW/4 N.E Sec. 26 T. 22 N R. 8 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

Signature of Owner Mary E. Banto

Date Nov. 13 1962.

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.

2510

STATE OF MONTANA, }
COUNTY OF CHOUTEAU, } ss.

NOV 14 1982

Filed _____ in _____

at 8:25 o'clock A. M

George W. Harvey
County Clerk

By Irma M. Harris Deputy

Fee $ 2.00 Paid