

File No. _____

T. 33 R. 57E
County Richland

DUPLICATE

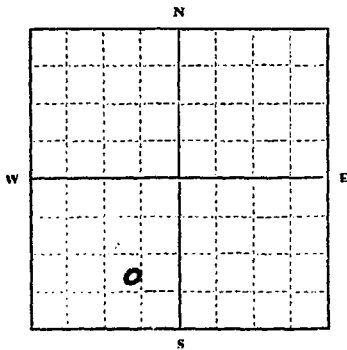
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Charles Thompson, of 290 7th Ave NE Sidney
(Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



237 Sec. 26 T. 23 R. 57

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. 1961 Continuous
4. The amount of groundwater claimed, (in miner's inches or gallons per minute). 40 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 means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Pumped with wind mill

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1961 July 14 - July 21
8. The depth of water table. 40 53
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 Cased with 6 inch casing
10. The estimated amount of groundwater withdrawn each year.
11. The log of formations encountered in the drilling of each well if available. 11 ft gravel, fine top soil, 53 Yellow & Blue clay, 5 ft 8 in sand, stopped well at sandy clay, depth of 14 ft. perforation by 2 1/2" 10" pipe 10 ft above bottom.
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 Charles Thompson
Date Jan 2 1964

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.

286773

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

Filed this 2 day of
January A. D. 19 64

at 9:10 o'clock, A.M.

E. D. Kaskid
County Recorder

E. Cook
Deputy

fee \$2.00

filed

File No.

T. 23^N R. 5^W E. 30

DUPLICATE

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1964

**Notice of Completion of Groundwater Appropriation
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater... January 31, 1963

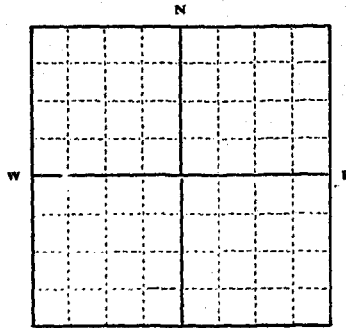
Owner... George E. Provost... Address... Lambert, Montana

Contractor (if any) ... None

Address of Contractor ... Not applicable

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

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. This is a natural spring which flows about 1 1/2 inches of water (rips)



S. 4 1/4 Sec. 30 T. 23. R. 57

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... it's used 6 months a year for livestock.

Signature of Owner.....

Date.....

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.

File No.

T. 23^N R. 5^W E. 30

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1964

**Notice of Completion of Groundwater Appropriation
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater January 31, 1963

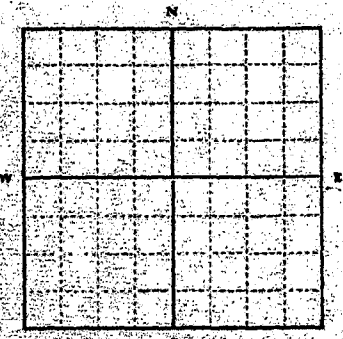
Owner George E. Probst Address Leahurst, Montana

Contractor (if any) None

Address of Contractor Not applicable

Date Started Date Completed

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. This is a natural spring which flows about 1 1/2 inches of water (pipe)



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

estimate approximate lengths of periods of use. 1 1/2" used 6 months a year for livestock.

S. 12 1/4 Sec 30 T. 23 R. 57
Indicate point of appropriation and place of use, if possible.

Signature of Owner

Date

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.

29742

STATE OF MONTANA } 33.286448
County of Richland,

Filed this 31 day of
December A.D. 1963

at 10:41 o'clock A.M.

E. L. Harker
County Recorder

E. Cook
Deputy

fee \$2.00
filed

31

T. 23 N R 57 E

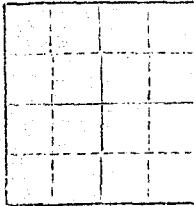
County: RICHLAND

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JAN 1967

WATER WELL LOG

STATE ENGINEER



Owner: JAMES O. DETHMAN Address: RT 1 Box 247 SIDNEY MONT

Driller: Address:

Date Started: Date Completed:

Location: Sec. 31 T. 23 R. 57 1/4 sec SE 4

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other:

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations:

Static Water level, for non-flowing well: feet

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

Pumping water level: feet at gal. per min.

How tested:

Length of test:

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

STATE OF MISSISSIPPI, ss. 274
County of Richland,

Filed this 29 day of Dec. A.D. 1961
at 3:32 o'clock P.M.

E. L. Lock
County Recorder
D. Sullivan
Deputy

File No.

T. 23 R. 57

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1964

**Notice of Completion of Groundwater Appropriation
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater..... 1946

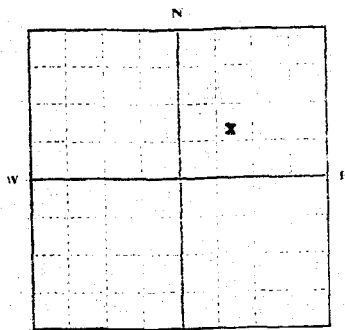
Owner Gussie Obargfell Address Sidney, Montana

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 when applicable..... flowing spring



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.....

flows about 7 gallons per minute and used
year around for stock

NE 1/4 Sec 32 T. 23 R. 57

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

Signature of Owner..... Gussie Obargfell

Date Dec. 31, 1963

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

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

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

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

29988

STATE OF MONTANA, } ss. 286694
County of Richland,

Filed this 31 day of
Dec. A. D. 19 63
at 2:54 o'clock P.M.
E. L. Kooker
County Recorder
R. Atchison
Deputy

fee: 2.00

filed

33

File No.

T. 23 N R 57 E

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODES
OFFICE OF STATE ENGINEER

RECEIVED
JAN 10 1964

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater..... 1946

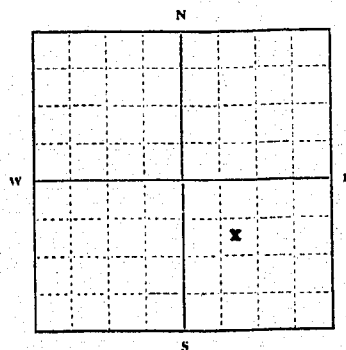
Owner Gussie Obargfell Address Sidney, Montana

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 when applicable. flowing spring



SE $\frac{1}{4}$ Sec. **33** T23 R. **57**

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.....

flows about 7 gallons per minute used year around for stock.

Signature of Owner Gussie Obargfell

Date..... Dec. 31, 1963

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

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

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

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

29989

STATE OF MONTANA, } ss. 286695
County of Richland, }

Filed this 21 day of
Dec. A. D. 19 63
at 2:55 o'clock P. M.
C. J. Koken
County Recorder
R. Atchison
Deputy

fee: 2 00
filed

File No.

T. 23 N R. 57 E

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1964

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1946

Owner Gussie Obergfell Address Sidney, Montana

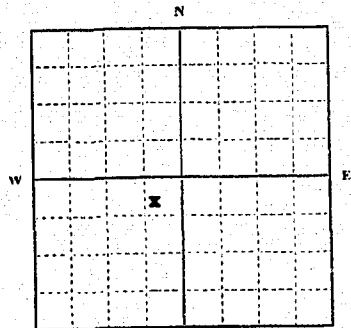
Contractor (if any) Kallevig Bros.

Address of Contractor Sidney, Montana

Date Started Sept. 1963 Date Completed Sept. 1963

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

In 1963 this spring was further developed and repaired by Kallevig Bros. of Sidney, Mont.



SW 1/4 Sec. 34 T. 23 R. 57

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.

Flow about 7 gallons per minute used

year around for stock.

Signature of Owner Gussie Obergfell

Date Dec. 31, 1963

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

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

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

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

29990

STATE OF MONTANA, }
County of Richland, } = 286696

Filed this 31 day of
Dec. A. D. 19 1902
at 7:56 o'clock P.M.

B. P. Kocken
County Recorder
A. Atchison
Deputy

fee: 20
filed

GV.

Approved Stock Form—State Publishing Co., Helena, Montana—42234

File No.

T. 23 N. 57 E.

DUPLICATE

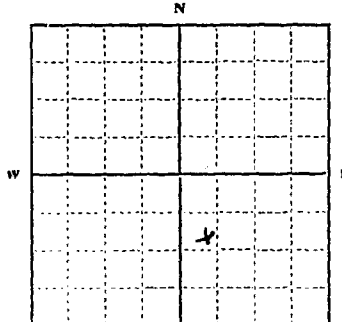
County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

James A. Coon of Linard Rte Sidney
(Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 of Sec. 36 T. 23 R. 57

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been about June 1940 every summer & fall

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater about June 1948

8. The depth of water table about 20 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 10 1/2 ft. deep, 2 ft diameter wood casing

10. The estimated amount of groundwater withdrawn each year 500,000

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

I am not the owner of this land just the lease or contract
Signature of Owner James A. Coon
Date Dec. 31, 1963
the well windmill & water tank

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.

29580

13123

STATE OF MONTANA, } ss. 286286
Highland, }

31 day of
December 1963

8:06 E. L. Kooker

R. Atchison
Deputy

filed

County Richard Twp. 23N Rge. 58E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
1	Panasuk Willie for Panasuk Donna	12W4	286655	
2	Richard County Soil Assessment District	57 Well Log	254190	
2	State Experiment Station	12W4	281093	
2	State Experiment Station	12W4	281092	
3	Fellgebl Glenn	12W2	327595	
3	Linard Mabel E.	57 Well Log	274710	
3	Linard Mabel E.	57 Well Log	274711	
4	Heiselberg O. L.	12W4	286157	
4	Johnson David K.	12W4	286643	
4	Pearce Oil United Inc.	57 Well Log	46353	
5	Brooks School Dist. 11	12W2	278327	
5	Dynneson Carl J.	12W4	286525	
5	Johnson Kenneth	57 Well Log	265338	
6	Dynneson Carl J.	12W4	286523	
7	Dynneson Carl J.	12W4	286524	
8	Omega Gas Company	12W2	308512	
8	Omega Gas Company	12W2	308511	
8	Anderson Brothers	12W4	286601	
9	Christiansen Alton	12W2	278328	
10	Rasmussen C. W. Mrs	12W4	285975	
10	Rasmussen C. W. Mrs	12W4	285977	
11	Rasmussen C. W.	12W4	285976	
12	Rasmussen C. W.	12W4	2 978	
13	Harter Cecil A.	12W4	286862	
13	Harter Cecil A.	12W4	286863	
13	Harter Joe	12W3	286418	
13	Harter Joe	12W4	285943	
13	Harter Joe	12W4	285940	
13	Harter Joe	57 Well Log	265345	
13	Harter Joe	12W4	285942	
16	Harter Cecil	12W2	321324	
17	Jarvisson Glenn, Jarvisson Herman Jarvisson Albert Jarvisson Henry	12W2	305353	
18	Larson Chris M.	12W2	286375	
19	Larson Chris M.	12W4	286376	
19	Larson Chris M.	12W2	286374	
22	Curdiff John	12W4	286596	
22	Curdiff John	12W4	286595	
22	Curdiff John	57 Well Log	272816	
23	Donald Russell D.	12W4	285944	
23	Harter Joe	12W3	286417	

File No.

T. 23 N. R. 58 E
County RICHLAND

DUPLICATE

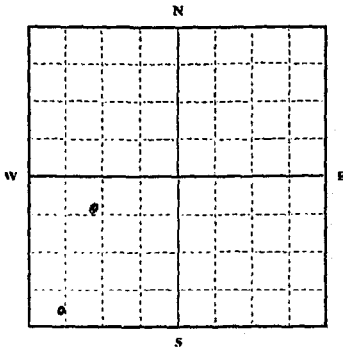
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. WILLIE DONNA PANASUK, of SIDNEY, MONTANA
(Name of Appropriator) (Address) (Town)
County of RICHLAND State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 1 T. 23 N. R. 58 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 for livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Wells are pumped daily except when grazing is deferred. They are pumped seasonally.

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal well and 2 electric pumps

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: acquired the land Sept. 1962; wells were drilled with various depths

8. The depth of water table: 10 to 20 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. casing, 100 ft. drilled, 1/2 hp. pump 75 ft. low water level to approx 95 ft.

10. The estimated amount of groundwater withdrawn each year: Not known

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

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

Signature of Owner Willie Panasuk
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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

STATE OF MONTANA, } ss. 286655
County of Richland,

Filed this 31 day of

December A.D. 1963

at 2:15 o'clock P.M.

E. L. Hooker
County Recorder

John Henke
Deputy

Fee 2.00
filed

RECORDED
2 1957

T. 23 North R. 58 East
County Richland Co, Montana

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

X		

Owner - Richland County Soil Conservation District
 Lessee - State of Montana (for Eastern Montana Branch Station Address Sidney, Montana both)
 Driller George Askin Drilling Co. Address Miles City, Montana
 Date Started August 7, 1957 Date Completed Aug. 17, 1957
 Location: Sec. 2 T. 23N R. 58E 1/4 sec. SW 1/4 of Sec. 2

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: 0 ft. to 45 ft. Type 8 inch steel pipe Size 8 inch diameter
 Casing: _____ ft. to _____ ft. Type _____ Size _____
 Casing: 45 ft. to 160 ft. Type Well not cased beyond 45 feet Size _____

Perforated or Screened: Ft. None to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations: _____

Static Water level, for non-flowing well: About 30 feet from surface _____ feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____

Pumping water level: _____ feet at _____ gal. per min. (date) Baling test indicated flow of 5 - 6 gallons per minute

How tested: Baling equipment on well driller

Length of test: Repeated tests of one minute each

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
 This well was drilled with the hopes of obtaining 50 - 100 gallons per minute flow which was not realized. Therefore, the well will not be used for irrigation purposes. The first 45 feet was cased with 8 inch steel pipe since the entire formation to this depth consisted of gravel. This casing was left in place to provide a site for a possible deeper well at some future date. The remainder of the well was drilled to a six inch diameter but was not cased. The well was capped over after completion. Water flowed into the well from a coal vein at a depth of 120 feet. Seepage also occurred into the well from the 45 feet of gravel near the surface which brought the water level in the well to within 30 feet of the surface if the well was left to stand for some time.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0 ft.	45 ft.	Gravel and sand
45 ft.	120 ft.	Blue clay
At 120 feet		Coal vein with water flow of 5 - 6 gallons per minute
120	160	Blue clay

254190

STATE OF MONTANA, ss. *nd*
 County of Richland, *nd*
 Filed this *23* day of *August* A. D. 19-*57*
 at *11:50* o'clock *A. M.*
S. L. K... County Recorder
B. K. ... Deputy

G

File No.....

T. 23 N R. 58E

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

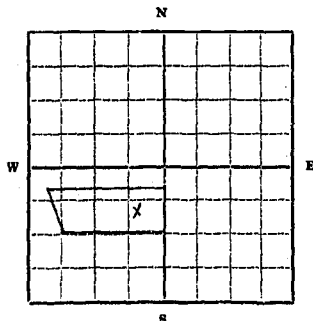
STATE ENGINEER

State of Montana
Agricultural Experiment Station
Eastern Montana Branch Station

1. _____ of Box 393 Sidney
(Name of Appropriator) (Address) (Town)

County of Richland State of Montana

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



SW 1/4 Sec. 2 T23N R. 58E

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

- 2. The beneficial use on which the claim is based Irrigation of small experimental plots on dryland annex of experiment station.
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been Well completed but not used since flow was too low for irrigation needs. Well remains cased to 45 feet and may be developed further at a later date as needed.
- 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 40.00 acres in North Half of Southwest Quarter of Sec. 2, Twp. 23N, Rge. 58E, plus 3.85 acres in Northwest quarter of the Southwest quarter of Sec. 2, Twp. 23N, Rge. 58E. Land Owner - Richland County Soil Conservation District, Sidney, Montana
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal No water being withdrawn at present.

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Well started and completed in August of 1957.
- 8. The depth of water table Small water vein at 45 feet plus slightly larger water vein at 120 feet in a coal vein.
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Well is of 8 inch diameter for top 45 feet and is of 6 inch diameter below this depth with no casing below 45 feet at present. Well has 8 inch well casing to depth of 45 feet. No pump or other means for withdrawing water is installed at present.
- 10. The estimated amount of groundwater withdrawn each year None at present.
- 11. The log of formations encountered in the drilling of each well if available From ground surface, 45 feet of soil and gravel, 75 feet of clay, small coal vein at 120 feet, and clay from coal vein to 160 feet of depth.
- 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

MONTANA AGRICULTURAL EXPERIMENT STATION

Signature of Owner J. A. Asleson
by J. A. Asleson, Director
Date January 23, 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.

3630

STATE OF MONTANA, } ss. 281093
County of Richland, }

Filed this 13 day of

Feb A. D. 1963

at 3:04 o'clock, P. M.

E. L. Harker

County Recorder

D. Sullivan

Deputy

Filed

File No.

T. 23N R. 58E

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

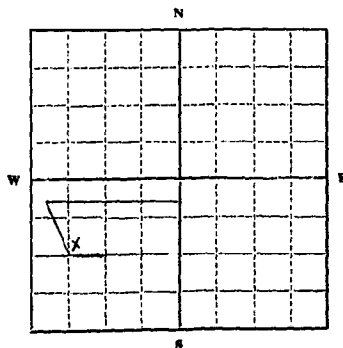
STATE ENGINEER

State of Montana
Agricultural Experiment Station

1. Eastern Montana Branch Station, of Box 393 Sidney
(Name of Appropriator) (Address) (Town)

County of Richland State of Montana

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



SW 1/4 Sec. 2 T23N R. 58E

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

2. The beneficial use on which the claim is based. Irrigation of small experimental plots on dryland annex of experiment station, and for source of water for sprayers, etc.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Well completed in Jan., 1958. Use began in April, 1958. Well has been used intermittently during the Spring, Summer, and Fall months since that date.
4. The amount of groundwater claimed (in miner's inches or gallons per minute). 12 gallons per minute.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. Small plot areas throughout the following: 40.08 acres in North Half of Southwest Quarter of Sec. 2, Twp. 23N, Rge 58E, plus 3.85 acres in Northwest quarter of the Southwest quarter of Sec. 2, Twp. 23N, Rge. 58E. Land Owner - Richland County Soil Conservation District
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Water withdrawn by submersible pump operated by electricity. Pump house is located directly over site of well.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Drilling of well started in December, 1957 and well was completed in Jan. 1958. Installation of pump was made in April, 1958 and water withdrawal was commenced at that time.
8. The depth of water table. Some water available from gravel layer at depth of 45 feet, and remainder from coal vein at 107 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. Well is cased with steel casing to full depth of 126 feet. Casing is 6 inches in diameter. Submersible pump located in bottom of well for pumping of water.
10. The estimated amount of groundwater withdrawn each year. 30,000 gallons per year.
11. The log of formations encountered in the drilling of each well if available. From surface - 6 feet of soil, gravel from 6 feet to 46 feet, clay from 46 feet to 100 feet, coal from 100 feet to 103 feet, clay from 103 to 104 feet, coal from 104 feet to 107 feet, and clay from 107 feet to 126 feet.
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.

MONTANA AGRICULTURAL EXPERIMENT STATION

Signature of Owner J. A. Asleson
by J. A. Asleson, Director
Date February 9, 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.

3629

STATE OF MONTANA, } ss. 281092
County of Richland, }

Filed this 13 day of

Feb A. D. 1963

at 3:02 o'clock, P. M.

E. L. Koster
County Recorder

D. Sullivan
Filer

Filed

RECEIVED

County Richland 3
DRILLER'S LOG

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

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

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

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner Helen Gierke
Shirard Route
Sidney, Montana 59270
Date well started March 24 '73
completed April 8 '73

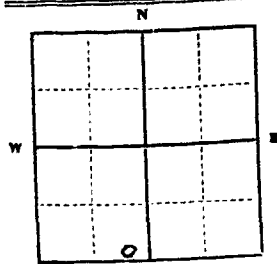
For Administrator's Use	
File Doc. #	<u>327595</u>
Filed on	<u>June 25, 1973 at 1:24 P.M.</u>
by	<u>Helen Gierke, Clerk</u>
GW 1	<u>by June Paladichuk</u>

Type of well Drilled (Dug, driven, bored or drilled)
Equipment used Cable tool (Cable 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). Not so used

ESTIMATED ANNUAL WITHDR. WAL 175,000 gals.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)		To (Feet)		PERFORATIONS	
		From	To	Kind	From (Feet)	To (Feet)	
<u>5 inch</u>	<u>4 1/2" OD</u> <u>Wt. 7.75 per ft.</u>	<u>surface</u>	<u>89 1/2</u>	<u>none</u>			



SE 1/4 - SE 1/4 SW 1/4 Sec. 3
T. 23N. N.R. 58 E. W. S

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

Driller's Signature Ray J. Peterkin
Driller's Address Shirard Route - Box 138
Sidney Montana 59270 LICENSE NO. 111

Top of Ground		
From (Feet)	To (Feet)	
0	2	<u>dark top soil</u>
2	8	<u>yellow clay</u>
8	9	<u>large gravel</u>
9	15 1/2	<u>yellow clay</u>
15 1/2	22	<u>gravel & coarse sand</u>
22	27	<u>dark gray clay</u>
27	29	<u>soft coal layer</u>
29	30	<u>very hard coal</u>
30	51	<u>gray clay</u>
51	56	<u>lightly sandy gray muddy clay</u>
56	59	<u>more sandy clay</u>
59	60	<u>quite some water but muddy & milky</u>
60	64	<u>hard blue clay</u>
64	69	<u>dark gray clay with sand & gravel pebbles</u>
69	73	<u>fine shaly gray clay</u>
73	79	<u>hard gray clay</u>
79	82	<u>fine gray sand & small gravel pebbles</u>
82	88	<u>more sandy and coarse with quite some water here</u>
88	89 1/2	<u>hard white clay. End of well.</u>

89 1/2 ft. Show exact depth of bottom
Drilled depth

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

Filed this 25 day of
June A. D. 19 73
at 1:24 o'clock P. M.

Thlen Bierke
County Recorder

June Paladichuk
Deputy

Fee: \$ 2.00
Filed

110000
110000

T. 23N R. 58E 3

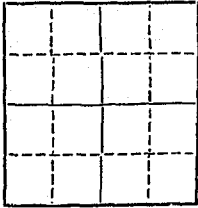
County Richmond

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JAN 2 1961

WATER WELL LOG

STATE ENGINEER



Owner Wall E. Simard Address 513 9th St. S.W. Sidney, Mont.

Driller Robert Evans Address Sidney, Mont.

Date Started 1940 Date Completed 1940

Location: Sec. 3 T. 33 R. 58 1/4 sec. East 1/2

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other: _____

Casing: 6" ft. to 40' ft. Type galvanized Size 1 1/4 size

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

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

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

Type of screen or perforations _____

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

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

Pumping water level 30' feet at _____ gal. per min.

How tested: Electric pump - R. H. Boster

Length of test _____

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

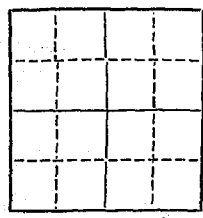
T. 23N R. 58E
County Richmond

3

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

WATER WELL LOG



Owner Mabel Edmund Address Sidney, Mont 513 1/2 W. 1st St.
Driller J. Swiss Address Sidney, Mont
Date Started 1930 Date Completed 1930
Location: Sec. 3 T. 23 R. 58 1/4 sec. East 1/2

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: 6" ft. to 90' ft. Type galvanized Size 1 1/2" pipe
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 70' feet at _____ gal per min.

How tested: Electric Pump - 1 H.P. Motor

Length of test _____

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

(over)

STATE OF MONTANA, ss. 274711
County of Richland,

Filed this 29 day of Dec A. D. 19 61
at 2:10 o'clock P. M.

E. P. Zuber
County Recorder
A. Sullivan
Deputy

GW

File No.

T. 23 N R. 58 E

County Richland

DUPLICATE

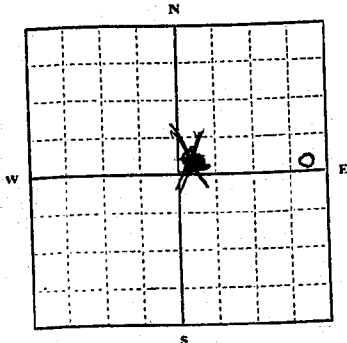
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Olle Heiselberg, of Guard Route Sidney
(Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



N.E. 1/4 Sec. 4 T.23 R.58

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 and domestic

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Nov. 8 - 1962, and used every day for stock and household.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 8 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 not the case

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. November 8 - 1962

8. The depth of water table.....

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Well is drilled - 6 inch O.D. wells are at 53 ft level, and also at 68 to 70 ft. level which is bottom of well.

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

11. The log of formations encountered in the drilling of each well if available. Sandy clay, yellow clay, gray clay, soft coal layer, yellow clay, and at the bottom is feet of hard coal with a lot of water.

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

Signature of Owner

Date Dec. 27 - 1963

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

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

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

STATE OF MONTANA, }
County of Richland, } ss. 286157

Filed this 30 day of
December A. D. 1962

at 11:48 o'clock P.M.

C. J. Kasper
County Recorder
Helmer Lunde
Deputy

fee 2.00
filed

File No.

T. 23 N. R. 58 E

County RICHLAND

DUPLICATE

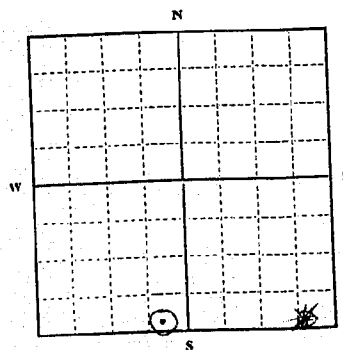
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1961

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. DONALD K. JOHNSON, of GARDNER SURVEY (Name of Appropriator) (Address) (Town)
County of RICHLAND State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 NE 1/4 Sec. 4 T. 23 R. 58 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 LIVESOCK
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been. ABOUT 1947 - CONTINUOUS
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 170 GPM
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. DRILLED WELL
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. NOV. 1948
- 8. The depth of water table. 40'
- 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 4 1/2" DIAMETER CASING 130 DEEP
- 10. The estimated amount of groundwater withdrawn each year. APPROX 6000 GALLONS
- 11. The log of formations encountered in the drilling of each well if available. NOT AVAILABLE
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. NONE AVAILABLE

Signature of Owner: D. K. Johnson
Date: 12/28/63

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

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

29937

STATE OF MONTANA, } ss. 28643
County of Richland, }

Filed this 31 day of

Dec. A. D. 19 67

at 2:30 o'clock P.M.

E. S. Hooker
County Recorder

R. Atchison
Deputy

*See 200
filed*

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA

R E L E A S E A G R E E M E N T

KNOW ALL MEN BY THESE PRESENTS, that I, D. K. Johnson
_____ of the County of Richland in
the State of ~~Montana~~, am the owner of the hereinafter described land upon which
a well for ~~oil or gas~~ ^{water} was drilled, to-wit:

Operator PERMOIL UNITED, INC.

Lease Name JOHNSON (Total Depth 80')

Well No. _____ Sec. 4, Twp. 23 N., Rge. 58 E. NW/4

The well is located _____ feet ^S/_N of the _____
line and _____ feet ^E/_W of the _____ 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 _____ Municipal _____ Stock Other _____
 Industrial _____ Drainage _____ Irrigation _____

Producing Depth 70 - 80' Producing Formation _____

Yield of well 15 GPM Annual Withdrawal 200,000 Gallons

WITNESS my hand and seal this 13 day of APRIL, 1970.

D. K. Johnson (L.S.)
Landowner
Address _____
Sidney, Montana

IN THE PRESENCE OF:

Robert D. Danner Address Sidney, Mont

Address _____

APPROVED BY:

Oil and Gas Conservation Commission
ORIGINAL SIGNED BY
Herbert D. Hadley, Petroleum Geologist
Petroleum Engineer, Geologist, or Executive Secretary

Dated: APR 14 1970, 1970

Rec. file _____
Date of record _____
Day of _____

46353

General Rules and Regulations
Order No. 1-1, Nov. 30, 1953
Regulation 233.6

WELLS USED FOR FRESH WATER

When the well to be plugged may safely be used as a fresh water well, and such utilization is desired by the landowner, the well need not be filled above the required sealing plug set below fresh water; provided, that written notification of such utilization is secured from the landowner and filed with the Commission. Approval by the Petroleum Engineer of the work done shall relieve the operator of further responsibility.

STATE OF MONTANA



ADMINISTRATORS

NORMAN J. BEAUDRY, EXEC. SECT.
P. O. BOX 217
HELENA, MONTANA 59601

DONALD A. GARRITY, ATTORNEY
422 NORTH PARK AVENUE
HELENA, MONTANA 59601

JUDSON D. SWEET,
PETROLEUM ENGINEER
15 POLY DRIVE
BILLINGS, MONTANA 59101

HERBERT D. HADLEY, GEOLOGIST
15 POLY DRIVE
BILLINGS, MONTANA 59101

OIL AND GAS CONSERVATION COMMISSION

325 FULLER AVENUE
BOX 217
HELENA, MONTANA 59601
April 16, 1970

COMMISSIONERS

WINSTON L. COX, CHAIRMAN
525 SECURITIES BLDG.
BILLINGS, MONTANA 59101

ALLEN ZIMMERMAN, VICE CHAIRMAN
P. O. BOX 277
POPLAR, MONTANA 59255

E. G. BALSAM
2300 PEARL
MILES CITY, MONTANA 59301

L. V. HARRIS
HORSKY BLOCK BLDG.
HELENA, MONTANA 59601

C. J. IVERSON
WHITLASH, MONTANA 59545

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: Pennzoil United, Inc.
Lease Name: Johnson
Location: Section 4, T23N, R58E, NW $\frac{1}{4}$

Yours very truly,

A handwritten signature in dark ink, appearing to read "Norman J. Beaudry".
Norman J. Beaudry
Executive Secretary

Enclosure

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

File No.

DUPLICATE

T. 23 R. 58
County. Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
(Elev. above sea level. near 2300.)
Topsoil 2 ft.
to 15' - dry gravel
to 38' - clay and a
coal layer with
2 1/2 gal. per min.
water.
to 76' - blue clay,
to 84' - light clay,
to 88' - gray hard
sand & lots of water,
to 93' - light
gray clay.

Owner Bronson School Dist. 11 Address Sidney, Mont.
Driller Ray J. Petersen Address Sidney, Mont.

Date of Notice of Appropriation of Groundwater

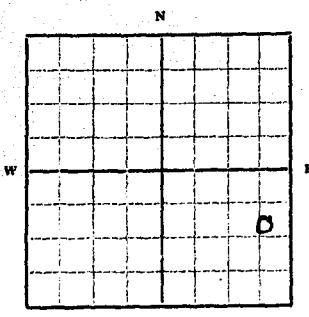
Date well started June 29-62 Date Completed 6-30-62

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

Water Use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8 inch	6 inch Wt. 10:50 per ft.	surface	93	1/2" round holes	25	40
					also 74	90



S.E. 1/4 Sec. 5 T. 23 R. 58

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

93 feet
Show exact depth of bottom.

Static Water Level for non-flowing Well 25 feet.

Shut-in Pressure for Flowing Well not the case

Pumping Water Level 82 feet at 9 gal per minute.

Discharge in gal. per min. of flowing well not the case

How Tested Drill bailer Length of Test 1 1/2 hours

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

acres irrigated, if used for irrigation) Casing is gravel packed to pump pit floor. Well at new school site.

111
Driller's License Number
Raymond J. Petersen
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.

2016

278327

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

Filed this 23 day of

August A. D. 19 62

at 11:20 o'clock A.M.

E. L. Oakes
County Recorder

Deputy

#200

File No.

T. 23 N. R. 58
County Richland

DUPLICATE

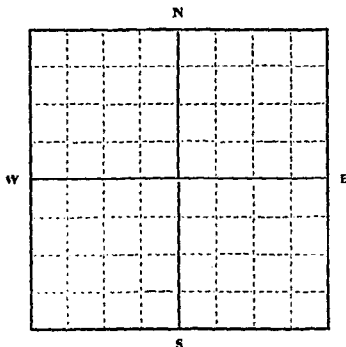
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 10 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Carl J. Dymason, of RT. 1 Box 119 Sidney
(Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 5 T. 23 R. 58

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 water
100 head cattle

3. Date or approximate date of earliest beneficial use, and how continuous the use has been 1942 each yr.
since

4. The amount of groundwater claimed (in miner's inches, or gallons per minute) 100 gal. per minute

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1942

8. The depth of water table 100 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 4 in casing 1 1/4 in well
pipa.

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

11. The log of formations encountered in the drilling of each well if available Clay and
sand stone and gravel.

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

Signature of Owner Carl J. Dymason
Date Dec 31 1964

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.

STATE OF MONTANA, } ss. 286520
County of Richland,
Filed this 31 day of
December A. D. 1963
at 12:05 o'clock P. M.
E. J. Kosker
County Recorder
E. L. Cook
Deputy

for \$2.00
Filed
E. J. Kosker

Case No. 20-111403

and state and branch.

Dept and

paper.

the carrying in the work

100 ft
2 1/2 in

unit and part of the

not used for inspection

SN 2 33 28

100 feet per minute

5

RECEIVED

T. 23N R. 52E
County Richland

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana
STATE ENGINEER

WATER WELL LOG

Owner Kenneth Johnson Address Sidney
 Driller Andy Brocko Address Sidney
 Date Started Feb 24 Date Completed 28 59
 Location: Sec 5 T. 23 R. 52 1/4 sec. 22

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

Water use: Domestic Municipal Stock Irrigation
 Industrial Drainage Other: _____

Casing: 98 ft. to _____ ft. Type C.P. Size 6 inch

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

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

Perforated or Screened: Ft. 28 to ft. 98 Ft. _____ to ft. _____

Type of screen or perforations Cut with string trowel

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

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

Pumping water level 10 feet at 9 gal. per min.

How tested: Bailing

Length of test: two hours

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

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	25	yellow clay
25	90	Blue clay
90	98	sand and water 9 gal per minute

265558

STATE OF MONTANA,
County of Richland, } ss.

Filed by *James* at _____ day of _____

at *8:30* o'clock, *P.M.*

C. C. [Signature]
County Recorder
Trenton

File No.

T. 23 N. R. 58 E

DUPLICATE

County Richland

STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

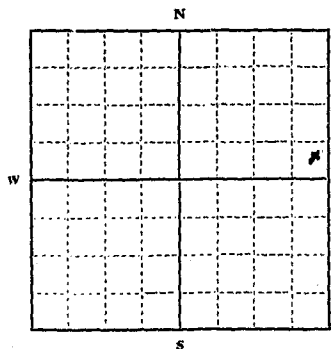
JAN 10 1963

STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Carl J. Dymmsen, of RT. 1 Box 119 Sidney
 (Name of Appropriator) (Address) (Town)
 County of Richland State of Montana
 have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



N.E. 1/4 Sec. 6 T. 23 R. 58

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 cattle and other animals

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1941 each yr.

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 150 gallons

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.
irrigate garden 1/2 acre

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1930

8. The depth of water table. 20 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. 2 ft. hole 50 ft. deep, 1 1/2 in. well pipe

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

11. The log of formations encountered in the drilling of each well if available. Clay coal sand stone and gravel.

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

Signature of Owner Carl J. Dymmsen
 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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

286523

STATE OF MONTANA, }
County of Richland, } ss. 286523

Filed this 31 day of

December A. D. 1963

at 12:03 o'clock, P. M.

C. L. Keenan
County Recorder

C. Cook
Deputy

fee \$2.00
filed

GW .

Approved Stock Form—State Publishing Co., Helena, Montana—42234

File No.

T. 23 N. R. 58 E

DUPLICATE

County Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

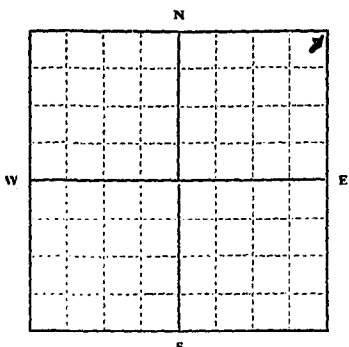
JAN 20 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Carl J. Dymnison of Rt. 1 Box 119 Sidney
(Name of Appropriator) (Address) (Town)

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



1/4 Sec. 7 T. 23 N. R. 58 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 water
150 head cattle
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1936 and
each yr. since.
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 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
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
hand pump and gas
motor.
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1936
- 8. The depth of water table 24 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 30 ft deep 2 ft. hole 1 1/2 in
well pipe.
- 10. The estimated amount of groundwater withdrawn each year 200,000 gal.
- 11. The log of formations encountered in the drilling of each well if available clay + gravel
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record none.

Signature of Owner Carl J. Dymnison
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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

29818

12-31-63

STATE OF MONTANA, } ss. 296524
County of Richland,

Filed this 31 day of

December A. D. 19 63

at 12:24 o'clock, P. M.

E. L. Kooker
County Recorder

E. Cook
Deputy

Fee \$5.00
filed

File No.

MONTANA WATER RESOURCES BOARD
RECEIVED

T. 23N. 58E

DUPLICATE

County Richland

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level) About 2300

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

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

to 12 ft. Dark clay loam
to 13 ft. Coarse sand & small gravel
to 23 ft. Yellow clay
to 29 ft. Gray clay
to 39 ft. Hard gray shale
to 39 1/2 ft. Hard shale rock
to 49 ft. Light gray clay
Small amount of water
at 40 ft.

to 65 1/2 ft. Very hard blue clay
to 70 ft. Fine gray sand
and 8-10 gals water

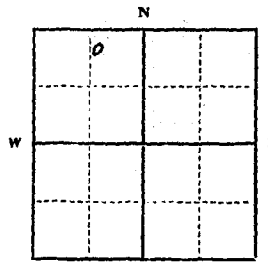
Owner Omega Gas Co. Address Sidney, Mont
Driller Ray J. Petersen Address Sidney, Mont
Date of Notice of appropriation of groundwater Sept. 18 - 1968
Date well started Sept. 7 - '68 Date completed Sept. 11 - '68
Type of well Drilled Equipment used Cable Tool
(Dug, driven, bored or drilled) (Churn drill, rotary or other)
Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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

Water rises to 25 ft level

End of well:

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 inch	6" O.D. 3 1/2" Wt. 10.50 per ft.	Surface	70	None		



Static Water Level for non-flowing well 25 feet.
Shut-in Pressure for Flowing Well None
Pumping Water Level 55 feet
at 8 gal. per minute.
Discharge in gal. per min. of flowing well None
How Tested Drill Bailer
Length of Test 1 hr.

N.E. 1/4 of NW 1/4 Sec 8 T. 23. R. 58

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

Remarks: (Gravel packing, cementing, packers, type of shutoff) Jump system is installed in pit with cover for protection

3 1/2 ft. gravel pack.

(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 well is for industrial use in a gas & oil products plant.

70 feet.

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.

Driller's License Number 111

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

Driller's Signature Ray J. Petersen

4/19/30

atofotolatore 1010
W.W. ...
H.S. ...

308512

STATE OF MONTANA,
County of Rollins,)

17
January 68
3:56 P.

Helen Burke
Elmer J. Cook

200
filed

e/b

File No.

MONTANA WATER DEPARTMENT
RECEIVED

T. 23N R 58E

DUPLICATE

County Richland

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Omega Gas Co. Address Sidney, Mont

Driller Ray J. Petersen Address Sidney, Mont

Date of Notice of appropriation of groundwater Nov. 10 - '68

Date well started Sept. 12 - '68 Date completed Sept. 26 - '68

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

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

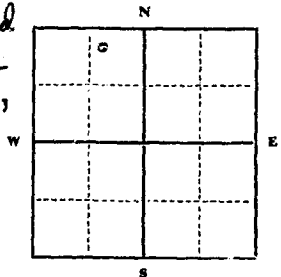
Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 inch	6" O.D. surface	surface	184			
	9 1/2 ft. 10:50 # per ft.					None

- Top of Ground (Elev. above sea level about 2300)
- to 13 ft. Dark clay Top soil
- to 15 ft. Coarse sand & gravel
- to 22 ft. Yellow clay
- to 37 ft. Blummy gray clay
- to 40 ft. Hard blue clay
- to 70 ft. Hard gray clay
- to 75 ft. Fine gray sand and quite some water - alkali
- to 78 ft. Hard gray clay
- to 88 ft. Fine gray sand & a little water
- to 94 ft. Hard gray clay
- to 100 ft. Hard coal
- to 108 ft. Hard gray clay
- to 109 ft. Hard coal
- to 114 ft. Fine gray sand
- to 117 ft. Gray clay
- to 119 ft. Sandy clay
- to 138 ft. Gray clay
- to 157 ft. Hard blue clay
- to 157 1/2 ft. Strip of coal
- to 167 ft. Gray clay
- to 172 ft. Fine clay sand - hard
- to 184 ft. Fine, grayish blue sand and lots of water, Hard Rock.

End of well:

NE 1/4 of N.W. 8



Static Water Level for non-flowing well 8.0 feet.

Shut-in Pressure for Flowing Well none

Pumping Water Level 14.0 feet at 8-10 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Drill bailer

Length of Test 1 1/2 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff) Pump is installed in pit with cover for protection

5 feet of gravel pack
(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 well is for industrial use in a gas & oil products plant.

184 feet
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.

111
Driller's License Number

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

Ray J. Petersen
Driller's Signature

4-4, 9-31

to be filed in the office of the County Recorder

308511

308511

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

Filed this 17 day of

January A. D. 19 69

at 3:55 o'clock, P..M.

Helen Hierke

County Recorder

Lisa Stanford

200

filed

GW:

Approved Stock Form—State Publishing Co., Helena, Montana—42234

File No.

T. 23 N. R. 58 E. 8

DUPLICATE

County

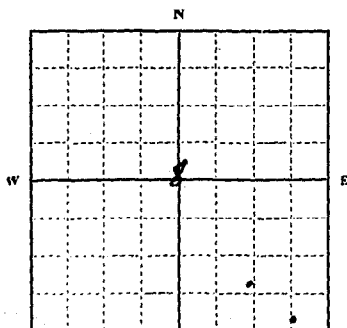
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 20 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Sorenson Brothers, of Sidney
(Name of Appropriator) (Address) (Town)
County of Richland State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



① 2 1/2 ac
② 2 1/2 ac Sec. 8, T. 23, R. 58

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1918 - 1962

4. The amount of groundwater claimed (in miner's inches or gallons per minute). see (10)

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1918

8. The depth of water table. 1 - 80, 2 - 70

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 ft. in diam.

10. The estimated amount of groundwater withdrawn each year. 1000 gal. per day when in use

11. The log of formations encountered in the drilling of each well if available. blue clay, brown coal

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

Signature of Owner Sorenson Bros. By: *Thomson*
Date 12-31-63

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.

29895

33
00
12
13
14
15

286601

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

Filed this 31 day of
December A. D. 19 63

at 1:21 o'clock, P.M.

E. L. Kooker
County Recorder

E. Cook
Deputy

fee \$2.00
filed

GW 2

File No.

DUPLICATE

T. 23 R. 58

County, Richland

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

RECEIVED

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

To Top of Ground (near Elev. above sea level. 2290)
 3 ft. is topsoil
 to 15 ft. sandy loam,
 to 16 1/2 ft. a gravel layer with about 5 gal per min. water,
 to 38 ft. yellow clay,
 to 42 ft. yellow sand with a little water,
 to 48 ft. blue clay,
 to 53 ft. sandy clay with a little water.

Olton Christiansen Address Sidney, Montana
Raymond J. Peterson Address Sidney, Montana

Date of Notice of Appropriation of Groundwater

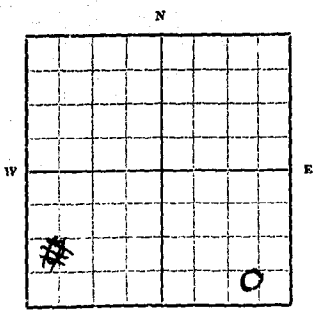
Date well started. June 9-'62 Date Completed June 10-'62

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

Water Use: Domestic Municipal Stock Irrigation
 Industrial Drainage Other

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8 inch	6 inch wt. 10:50 per ft.	surface	53 ft	1/2 inch round holes	10	53



SE 1/4 Sec. 9 T23 R58

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

53 ft. Show exact depth of bottom.

Static Water Level for non-flowing Well. 12 feet.

Shut-in Pressure for Flowing Well not the case

Pumping Water Level. 48 feet at 8 gal. per minute.

Discharge in gal. per min. of flowing well not the case

How Tested Drill bailer Length of Test 3 hrs. time

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

acres irrigated, if used for irrigation) Gravel packed at pit floor level where lead in pipes goes to basement of house

111
 Driller's License Number
Raymond J. Peterson
 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.

2015

278378

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

Filed this 23 day of

August, A. D. 1927

at 11:25 o'clock A. M.

E. O. Baker
County Recorder

Deputy

\$2.00

File No. _____
DUPLICATE

T. 23 N. R. 58 E
County Richland

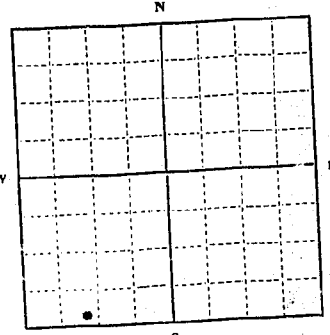
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 27 1963

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

Mrs. I.C. W. Rasmussen, of 502 7th Ave. S. S., Sidney, Montana
(Name of Appropriator) (Address) (Town)

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



SW 1/4 Sec. 10 T. 23 R. 58

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
Not being used at present
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1951 until approximately 1957
4. The amount of groundwater claimed (in miner's inches or gallons per minute). None at present time
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
See above
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
None at present time
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
see above
8. The depth of water table. 40 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.
Bored well, 24" and 40 feet deep
10. The estimated amount of groundwater withdrawn each year. Not being used
11. The log of formations encountered in the drilling of each well if available.
Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner Mrs. I. C. W. Rasmussen
Date December 23, 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.

STATE OF MONTANA, } ss. 285975
County of Richland, }

Filed this 26 day of
December A. D. 19 63
at 11:45 o'clock P.M.
E. R. Koop
County Recorder
E. Cook
Deputy

fee \$2.00
filed

STATE OF MONTANA, } ss. 285977
County of Richland,

Filed this 26 day of
December A. D. 19 63
at 11:49 o'clock, A.M.

E. L. Kaskin
County Recorder
E. Cook
Dennis

fee \$2.00
filed