

File No. ....

DUPLICATE

T. 6N R. 45E

County CusterRECEIVED  
DEC 1 1963STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater July 1934Owner Tom Batt Address Hathaway, MontanaContractor (if any) NoneAddress of Contractor NoneDate Started July 1934 Date Completed July 1934

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

Dug a small pit

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.

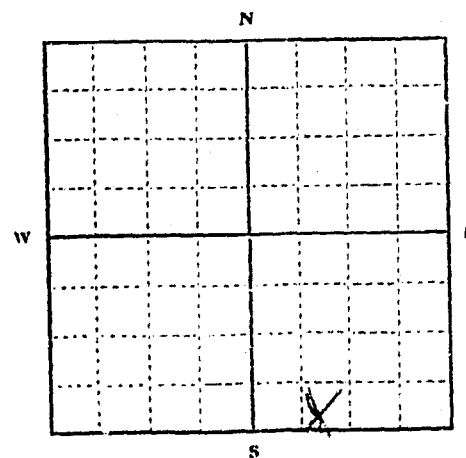
3 gals per minuteSignature of Owner Tom BattDate Dec 27 1963

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.



SE 1/4 Sec. 5 T. 6N R. 45E

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

11016

**FILED**

At 3:15 O'Clock P.M.  
Dec 27 1863

W. E. Garrison  
County Clerk and Ex-Officio Recorder of  
Custer County, Montana  
W. E. Garrison  
Deputy

File No. ....

DUPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

T. 6 N. R. 45 E

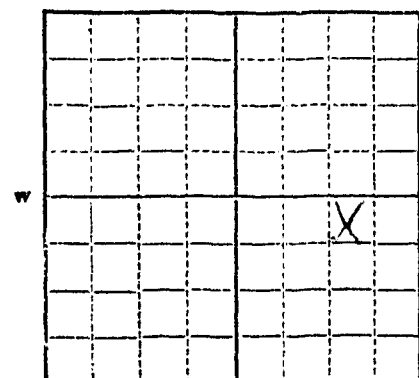
County Custer

RECEIVED  
DEC

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Thomas (Tom) Bott of Hathaway  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 3 T. 6 N. R. 45 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.....  
Livestock + Domestic needs
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been.....  
March 1949
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute).....  
10 Miners inches per day
5. If used for irrigation, give the acreage and description of the lands  
to which water has been applied and name of the owner thereof.....  
Garden 1/4 of an acre  
SE 1/4 Sec. 8 T. 6 N. R. 45 E  
Tom Bott - owner
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 with-  
drawal of groundwater.....  
March 1949
8. The depth of water table.....  
70 ft
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other  
works for the withdrawal of groundwater.....  
8 in. Casing
10. The estimated amount of groundwater withdrawn each year.....  
10 Miners inches per day
11. The log of formations encountered in the drilling of each well if available.....  
None 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..... Tom Bott

Date..... Dec 7, 1963

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

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

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

4014

**FILED**

At 3:11 O'Clock P.M.

Dec 27 1963

H. E. Anderson  
County Clerk and Ex-Officio Recorder

Custer County, Montana

By Rud. Rost  
Deputy

File No. ....

T. 6N R. 45E

DUPLICATE

County Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 1 1963

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

STATE ENGINEER

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Before 1910

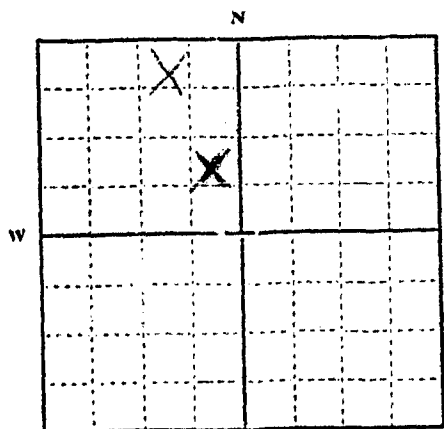
Owner Tom Batt Address Hathaway, Montana

Contractor (if any) None

Address of Contractor None

Date Started 1910 Date Completed 1910

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



7<sup>th</sup> Sec 8 T6N R45E  
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.

4 gals per minute from each spring

Signature of Owner Tom Batt

Date Jan 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.

11015

**F I L E D**

At 3:12 O'Clock P.M.

Dec 27 1963

*H. C. Anderson*

County Clerk and Ex-Officio Recorder of

Custer County, Montana

*Ruth Kist*

Deputy

File No. ....  
DUPLICATE

T. 6 R. 45  
County Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

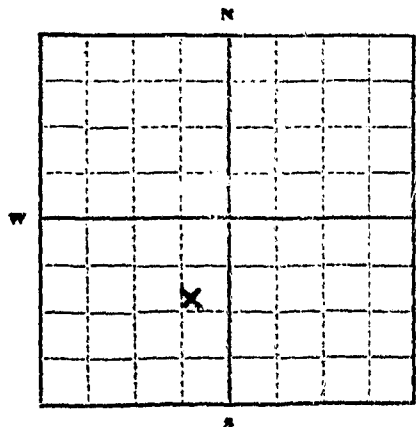
RECEIVED  
OCT 31 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

Charlie Stone of 1519 Palmer Miles City  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



$\frac{1}{4}$  Sec 18 T. 6 R. 45  
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 Reservoir  
Stock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1941 whenever  
available
4. The amount of groundwater claimed (in miner's inches or gallons per minute) Drainage
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 Reservoir
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1941
8. The depth of water table SW
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 Reservoir
10. The estimated amount of groundwater withdrawn each year
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

Charlie Stone  
Date Oct 28, 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.

6725

FILED  
It 3:10 O'Clock P. M.  
Oct. 30 1963  
H.E. Anderson  
County Clerk and Ex-Officio Recorder of  
Custer County, Montana  
By \_\_\_\_\_ Deputy

91301011 3010  
OCT 30 1963



File No.

DUPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

T. 6 R. 45

County

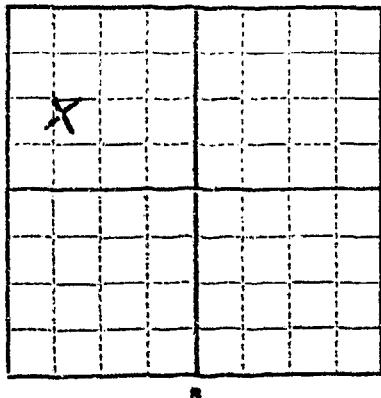
RECEIVED  
OCT 31 1963

STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Charlie Stone of 1519 Palmar Mills City  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



$\frac{1}{4}$  Sec. 20 T. 6 R. 45

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. Spring-  
Stock water
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been. 1920 - Continuous  
use up to date
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute). 3 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
6. The means of withdrawing such water from the ground and the  
location of each well or other means of withdrawal. Running Spring
7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater.
8. The depth of water table.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other  
works for the withdrawal of groundwater. Running Spring
10. The estimated amount of groundwater withdrawn each year.
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

Charlie Stone  
Dated Oct. 28, 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.

6726

10085  
**FILE**  
At 3:15 O'Clock P.M.  
Oct. 30 1963  
H. E. Anderson  
County Clerk and Ex-Officio Recorder  
County, Montana  
By \_\_\_\_\_

RECEIVED  
OCT 31 1963  
CLERK OF DISTRICT COURT

File No. ....

DUPLICATE

T. 6 R. 45

County

RECEIVED  
OCT 31 1963

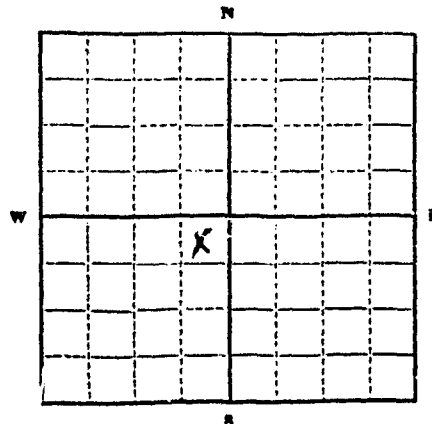
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Charlie Stone of 1519 Palmer Miles City  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 31 T. 6 R. 45

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.....  
Stockwell
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been..... 1948 -  
Continuous use up to  
date - 6 mo. out of each year.
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute)..... 8 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.....  
Windmill pump -
7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater..... 1948
8. The depth of water table..... 42.5 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..... 4 inch casing - 2 inch  
pipe
10. The estimated amount of groundwater withdrawn each year.....
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

Charlie Stone

Date Oct. 28, 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.

6727

1863

FILED

At 3:30 O'Clock P.

Oct. 30 1863

H. E. Anderson

County Clerk and Ex-Officio Recorder  
Custer County, Montana

By \_\_\_\_\_ Dep.

RECORDED  
INDEXED  
OCT 31 1863

File No. ....

DUPLICATE

T. 6 R. 45

County Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

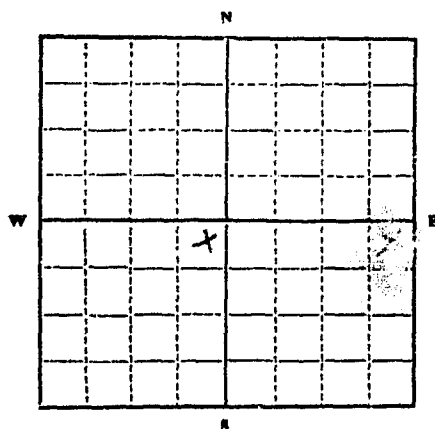
RECEIVED  
OCT 31 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Charlie Stone of 1519 Palmer Miles City  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 32 T. 6 R. 45  
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. Spring  
Stockwater

3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been. 1940 - Continuous  
use up to date

4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 3 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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater

8. The depth of water table

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other  
works for the withdrawal of groundwater. Running Spring

10. The estimated amount of groundwater withdrawn each year

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 Charlie Stone

Date Oct. 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.

6724

10083

**FILED**

At 3:05 P.M. O'Clock / M

Oct. 30 1963

*H. E. Anderson*

County Clerk and Ex-Officio Recorder

County, Montana

By \_\_\_\_\_

(Signature)

21111 FURNACE

RECORDED

## GROUNDWATER INDEX

Page      of

County CUSTER Twp. 6N Rge. 46E

[illegible]

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

DUPLICATE

T. \_\_\_\_\_

R. \_\_\_\_\_

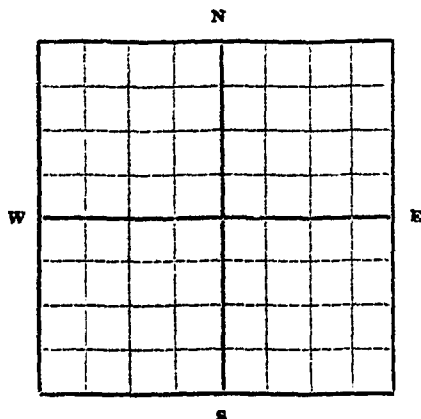
County CUSTER

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

1. U. S. DEPARTMENT OF AGRICULTURE of BOX 810, MILES CITY  
(Name of Appropriator) (Address) (Town)  
County of CUSTER State of MONTANA  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



..... 1/4 ..... Sec. .... T. .... R. ....

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

2. The beneficial use on which the claim is based Furnish water for domestic use and for watering livestock.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been See Item 3, Exhibit I.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) See Item 4, Exhibit I.
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 See Exhibit I and II for location. Wells equipped with windmills and auxiliary engines.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater See Item 7, Exhibit I.
8. The depth of water table See Item 8, Exhibit I. Water table given is depth to water bearing sands pumped.
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 See Exhibit III. Logs of wells that are available.
10. The estimated amount of groundwater withdrawn each year See Item 10, Exhibit I.
11. The log of formations encountered in the drilling of each well if available See Exhibit III. Available logs.
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 See filing stamp.

U.S. D.A., U.S. RANGE LIVESTOCK EXP. STATION

Signature of Owner BY: J. H. Gugenbush

Responsible in Charge J. H. Gugenbush, Animal

Date 1/24/62

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.



# **APPENDIX A**

ITEM NUMBER

| Well Identification   | Map Number | Section | Township | Range | 1/4 Sec. | (3)<br>Date of Earliest and Continuous Use | (4)<br>Gallons Per Minute Estimated | (7)<br>Date Drilled | (8)<br>Depth of Water Table | (10)<br>Estimated Gallons Ground-Water Pumped Each Year |
|-----------------------|------------|---------|----------|-------|----------|--|-------------------------------------|---------------------|-----------------------------|---|
| No. 2 Well            | 123        | 13      | 7N       | 47E   | NW       | 1948 to 1962                               | 10                                  | July 1948           | 210 ft.                     | 359,856   |
| No. 3 Pasture Well    | 131        | 7       | 6N       | 47E   | NW       | 1950 to 1962                               | 5                                   | No record           | 22 ft.                      | 105,754   |
| No. 3 Well            | 132        | 3       | 6N       | 47E   | NE       | Prior to 1924-1962                         | 10                                  | No record           | No log                      | 158,630   |
| No. 7 Well            | 133        | 26      | 6N       | 46E   | SE       | Prior to 1924-1962                         | 10                                  | No record           | No log                      | 335,846   |
| No. 1 Well            | 134        | 17      | 7N       | 46E   | NW       | Prior to 1924-1962                         | 10                                  | No record           | No log                      | 246,758   |
| Custer Flat Well      | 136        | 4       | 6N       | 45E   | SE       | 1935 to 1962                               | 2                                   | Oct. 1935           | 412 ft.                     | 112,435   |
| Lower Ignite Well     | 137        | 2       | 6N       | 46E   | NW       | Prior to 1924-1962                         | 5                                   | No record           | No log                      | 185,069   |
| Upper Ignite Well     | 138        | 12      | 6N       | 46E   | NE       | 1948 to 1962                               | 10                                  | July 1948           | 628 ft.                     | 287,885   |
| Upper Coal Creek Well | 139        | 31      | 6N       | 46E   | SW       | 1942 to 1962                               | 12                                  | June 1942           | 289 ft.                     | 89,467  |
| 2 C Bend Well         | 140        | 36      | 6N       | 47E   | SW       | 1950 to 1962                               | 10                                  | June 1950           | 14 ft.                      | 143,942   |
| Camel Back Well       | 141        | 4       | 7N       | 46E   | SW       | 1947 to 1962                               | 10                                  | Feb. 1947           | 616 ft.                     | 215,914   |
| Indian Creek Well     | 142        | 24      | 6N       | 46E   | NW       | 1947 to 1962                               | 12                                  | Feb. 1947           | 615 ft.                     | 188,006   |
| Blakely Creek Well    | 143        | 4       | 7N       | 46E   | SW       | 1942 to 1962                               | 6                                   | June 1942           | 680 ft.                     | 89,467  |
| Domestic Well #1      | 144        | 8       | 7N       | 46E   | NW       | 1955 to 1962                               | 60                                  | June 1955           | 420 ft.                     | 677,520   |
| Domestic Well #2      | 145        | 7       | 7N       | 46E   | NE       | 1958 to 1962                               | 250                                 | Oct. 1958           | 495 ft.                     | 677,520   |
| Hatchery Well         | 146        | 12      | 7N       | 46E   | SE       | No record                                  | 1.5                                 | No record           | 600 ft.                     | 699,048   |
| Meadow Well           | 147        | 13      | 7N       | 46E   | NE       | 1960 to 1962                               | 10                                  | July 1960           | 20 ft.                      | 156,519   |
| Field 3 Well          | 148        | 13      | 7N       | 46E   | NE       | 1961 to 1962                               | 5                                   | Oct. 1960           | 102 ft.                     | 173,300   |
| Hog Back Well         | 149        | 26      | 6N       | 47E   | SW       | 1932 to 1962                               | 4                                   | May 1932            | 194 ft.                     | 146,880   |
| Lone Pine Well        | 150        | 21      | 6N       | 46E   | SW       | 1932 to 1962                               | 4                                   | May 1932            | 115 ft.                     | 146,880   |

EXHIBIT III.

LOGS OF WELLS THAT ARE AVAILABLE:

NO. 2 WELL - MAP NO. 123

|                           |                                    |
|---------------------------|------------------------------------|
| 210 ft. depth of well     | 1 ft. top soil                     |
| 211 ft. 4" casing         | 1 ft. to 180 ft. blue gumbo        |
| 5 joints of 4" perforated | 180 ft. to 183 ft. hard sand rock  |
| Water level 115 ft.       | 183 ft. to 210 ft. Blue water sand |
| Drawdown 119 ft. at 9 GPM |                                    |

CUSTER FLAT WELL - MAP NO. 136

|         |    |         |    |   |
|---------|----|---------|----|---|
| 0       | to | 25'     | -- | Yellow clay                               |
| 25      | -- | 33      | -- | Gravel                                    |
| 33      | -- | 60      | -- | Brown sand rock                           |
| 60      | -- | 127     | -- | Gumbo                                     |
| 127     | -- | 131     | -- | Lignite coal                              |
| 131     | -- | 135     | -- | Dark Clay                                 |
| 135     | -- | 137     | -- | Lignite coal                              |
| 137     | -- | 139     | -- | Dark clay                                 |
| 139     | -- | 142     | -- | Hard rock                                 |
| 142     | -- | 173     | -- | Gray sand and shale                       |
| 173     | -- | 193     | -- | Blue gumbo                                |
| 193     | -- | 194     | -- | Hard rock                                 |
| 194     | -- | 254     | -- | Gray gumbo                                |
| 254     | -- | 254' 8" | -- | Hard rock                                 |
| 254' 8" | -- | 276     | -- | Gumbo                                     |
| 276     | -- | 315     | -- | Sandy Shale                               |
| 315     | -- | 346     | -- | Blue gumbo                                |
| 346     | -- | 362     | -- | Sand                                      |
| 362     | -- | 366     | -- | Blue gumbo                                |
| 366     | -- | 396     | -- | Sand (hole bailed out and 4" casing set.) |
| 396     | -- | 397     | -- | Hard rock                                 |
| 397     | -- | 416     | -- | Sand                                      |
| 416     | -- | 417     | -- | Hard rock                                 |
| 417     | -- | 476     | -- | Sand rock                                 |
| 476     | -- | 476' 4" | -- | Hard rock                                 |
| 476' 4" | -- | 486     | -- | Sand rock                                 |
| 486     | -- | 487     | -- | Hard rock                                 |
| 487     | -- | 495     | -- | Sand rock                                 |
| 495     | -- | 496     | -- | Hard rock                                 |
| 496     | -- | 515     | -- | Sand rock                                 |
| 515     | -- | 519     | -- | Hard rock                                 |
| 519     | -- | 521     | -- | Hard sand rock                            |

UPPER LIGNITE WELL - MAP NO. 138

|                           |   |
|---------------------------|---|
| 620 ft. depth of well     | 1 ft. to 25 ft. Sand and gravel                 |
| 397 ft. 4" casing         | 25 ft. to 35 ft. Yellow clay                    |
| 6 jts. 4" perforated      | 35 ft. to 38 ft. Rock                           |
| 263 ft. 2" casing         | 38 ft. to 58 ft. Blue gumbo                     |
| 12 joints 2" perforated   | 58 ft. to 59 ft. Rock                           |
| 17 ft. 3" casing          | 59 ft. to 201 ft. Blue gumbo                    |
| 1-3" x 2" reducer         | 201 ft. to 202 ft. Small coal vein              |
| Water level 125 ft.       | 202 ft. to 397 ft. Blue gumbo                   |
| Drawdown 208 ft. at 9 GPM | 397 ft. to 397 ft. Water bearing sand 1 1/2 GPM |
|                           | 397 ft. to 400 ft. Blue gumbo                   |
|                           | 400 ft. to 620 ft. Water sand streak with Gumbo |

UPPER COAL CREEK - MAP NO. 139

|                                    |                                      |
|------------------------------------|--------------------------------------|
| 2 ft. top soil                     | 132 ft. to 135 feet Rock             |
| 2 ft. to 45 ft. Yellow clay        | 135 ft. to 147 ft. Dark gumbo        |
| 45 ft. to 47 ft. rock              | 147 ft. to 149 ft. rock              |
| 47 ft. to 55 ft. gray gumbo        | 149 ft. to 158 ft. sand-little water |
| 55 ft. to 60 ft. sand-little water | 158 ft. to 160 ft. rock              |
| 60 ft. to 70 ft. gray gumbo        | 160 ft. to 235 ft. gray gumbo        |
| 70 ft. to 132 ft. dark gumbo       | 235 ft. to 275 ft. water sand        |
| mixed with coal                    | 275 ft. to 289 ft. gumbo             |

CAMEL BACK WELL - MAP NO. 141

|                    |          |                    |                     |
|--------------------|----------|--------------------|---------------------|
| 0 ft. to 10 ft.    | Top soil | 225 ft. to 245 ft. | Gumbo               |
| 10 ft. to 22 ft.   | Gravel   | 345 ft. to 365 ft. | Sandy               |
| 22 ft. to 35 ft.   | Gumbo    | 365 ft. to 460 ft. | Gumbo               |
| 35 ft. to 45 ft.   | Sand     | 460 ft. to 480 ft. | Sand                |
| 45 ft. to 110 ft.  | Gumbo    | 480 ft. to 545 ft. | Gumbo               |
| 110 ft. to 130 ft. | Sand     | 545 ft. to 546 ft. | Rock                |
| 130 ft. to 218 ft. | Gumbo    | 546 ft. to 616 ft. | Sand-water sand 70' |
| 218 ft. to 225 ft. | Rock     | 616 ft. to 626 ft. | Gumbo               |

INDIAN CREEK WELL - MAP NO. 142

|                    |          |                    |                             |
|--------------------|----------|--------------------|-----------------------------|
| 0-33 ft.           | Top soil | 254 ft. to 256 ft. | Gumbo                       |
| 33 ft. to 46 ft.   | Gravel   | 256 ft. to 258 ft. | Rock                        |
| 46 ft. to 63 ft.   | Gumbo    | 258 ft. to 366 ft. | Gumbo                       |
| 63 ft. to 66 ft.   | Rock     | 366 ft. to 370 ft. | Rock                        |
| 66 ft. to 110 ft.  | Gumbo    | 370 ft. to 412 ft. | Sand                        |
| 110 ft. to 140 ft. | Sand     | 412 ft. to 450 ft. | Gumbo                       |
| 140 ft. to 170 ft. | Gumbo    | 450 ft. to 475 ft. | Sandy                       |
| 170 ft. to 190 ft. | Sand     | 475 ft. to 526 ft. | Gumbo                       |
| 190 ft. to 220 ft. | Gumbo    | 526 ft. to 542 ft. | Sand                        |
| 220 ft. to 222 ft. | Rock     | 542 ft. to 565 ft. | Gumbo                       |
| 222 ft. to 252 ft. | Gumbo    | 565 ft. to 615 ft. | Sand-50' water bearing sand |
| 252 ft. to 254 ft. | Rock     | 615 ft. to 626 ft. | Gumbo                       |

BLAKELY CREEK WELL - MAP NO. 143

|                    |                      |                    |                       |
|--------------------|----------------------|--------------------|-----------------------|
| 3 ft.              | Top soil             | 230 ft. to 430 ft. | Gumbo                 |
| 3 ft. to 22 ft.    | Brown sand           | 430 ft. to 432 ft. | Rock                  |
| 22 ft. to 30 ft.   | Gravel & coarse sand | 432 ft. to 460 ft. | Sandy shale           |
| 30 ft. to 80 ft.   | Brown gumbo          | 460 ft. to 496 ft. | Gumbo-seal on 3" rock |
| 80 ft. to 125 ft.  | Gray gumbo           | 496 ft. to 535 ft. | Sand)                 |
| 125 ft. to 126 ft. | Sand rock            | 535 ft. to 537 ft. | Rock) Water           |
| 126 ft. to 155 ft. | Gray shale           | 537 ft. to 680 ft. | Sand)                 |
| 155 ft. to 165 ft. | Sand                 | 680 ft. to 690 ft. | Gumbo                 |
| 165 ft. to 230 ft. | Sandy shale          |                    |                       |

DOMESTIC WELL No. 1 - MAP NO. 144

|               |             |   |
|---------------|-------------|---|
| 0 - 8 ft.     | Top soil    | 39 ft. of 17" pipe                      |
| 8 - 38 ft.    | Gravel      | 422 ft. of 10" pipe                     |
| 38 - 90 ft.   | Clay        | 100 ft. perforation                     |
| 90 - 129 ft.  | Sand        | 320 ft. cemented to top of ground level |
| 129 - 132 ft. | Rock        |   |
| 132 - 166 ft. | Sand        |   |
| 166 - 237 ft. | Shale       |   |
| 237 - 260 ft. | Sand        |   |
| 260 - 320 ft. | Shale       |   |
| 320 - 372 ft. | Sand        |   |
| 372 - 420 ft. | Sandy shale |   |

DOMESTIC WELL NO. 2 - MAP NO. 145

|               |             |               |               |
|---------------|-------------|---------------|---------------|
| 0 - 15 ft.    | Top soil    | 237 - 241 ft. | Rock          |
| 15 - 32 ft.   | Gravel      | 240 - 382 ft. | Gumbo & Shale |
| 32 - 45 ft.   | Gumbo       | 382 - 386 ft. | Hard rock     |
| 45 - 100 ft.  | Sand        | 386 - 415 ft. | Shale         |
| 100 - 120 ft. | Shale       | 415 - 424 ft. | Sand          |
| 120 - 125 ft. | Hard rock   | 424 - 440 ft. | Shale         |
| 125 - 130 ft. | Shale       | 440 - 443 ft. | rock          |
| 130 - 132 ft. | Rock        | 443 - 468 ft. | Sand          |
| 132 - 140 ft. | Sand        | 468 - 470 ft. | Hard rock     |
| 140 - 205 ft. | Shale       | 470 - 485 ft. | Sand          |
| 205 - 207 ft. | Rock        | 485 - 495 ft. | Shale         |
| 207 - 215 ft. | Shale       |               |               |
| 215 - 225 ft. | Sandy shale |               |               |
| 225 - 237 ft. | Shale       |               |               |
|               |             | Draw down -   | 50 ft.        |
|               |             | Water level - | 20 ft.        |
|               |             |               | 250 GPM       |

FIELD 3 WELL - MAP NO. 146

|                 |            |                   |            |
|-----------------|------------|-------------------|------------|
| 0 - 5 ft.       | Sandy soil | 57 ft. to 64 ft.  | Gumbo      |
| 5 ft. - 7 ft.   | Sand Rock  | 64 ft. to 69 ft.  | Water sand |
| 7 ft. - 29 ft.  | Gravel     | 69 ft. to 73 ft.  | Gumbo      |
| 29 ft. - 54 ft. | Gumbo      | 73 ft. to 81 ft.  | Water sand |
| 54 ft. - 55 ft. | Water seep | 81 ft. to 102 ft. | Gumbo      |
| 55 ft. - 57 ft. | Rock       |                   |            |

HOG BACK WELL - MAP NO. 147

|                 |                 |                   |                |
|-----------------|-----------------|-------------------|----------------|
| 0 - 1 ft.       | Top soil        | 91 ft. - 147 ft.  | Blue shale     |
| 1 ft. - 39 ft.  | Sandy formation | 147 ft. - 149'-3" | Sand rock      |
| 39 ft. - 41 ft. | Lignite coal    | 149'-3" - 152 ft. | Water sand     |
| 41 ft. - 90 ft. | Blue shale      | 152 ft. - 194 ft. | Rock on bottom |
| 90 ft. - 91 ft. | Sand rock       |                   |                |

LOVE PINE WELL - MAP NO. 150

|                 |                            |                     |                                     |
|-----------------|----------------------------|---------------------|-------------------------------------|
| 0 - 1 ft.       | Top Soil                   | 39 ft. - 50 ft.     | Blue shale                          |
| 1 ft. - 24 ft.  | Sandy formation            | 50 ft. - 51 1/2 ft. | Sand rock                           |
| 24 ft. - 33 ft. | Blue clay & 1 rock boulder | 51 1/2 ft. - 73 ft. | Blue water sand                     |
| 33 ft. - 39 ft. | Sand rock                  | 73 ft. - 115 ft.    | Bottom consisting of coal formation |

**NOTE:** Well Map Numbers 131, 140 and 147 were hand dug through top soil to Gumbo. All other wells drilled.

Map No. 146 is a flowing well.

1967

**FILED**

At 1:20 O'Clock P.M.

January 24 1962

F. T. Anderson

County Clerk and Ex-Officio Recorder

Poster County, Montana

Walter A. Johnson

Deputy

GW3

File No. 2591

DUPLICATE

GW 4  
GWA

T. 7N R. 46E

County CUSTER

RECEIVED  
JAN 2 1962

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 12/31/24  
U.S. Dept. of U.S. Range Live. Exp. Sta.  
Owner Agriculture Address Miles City, Montana

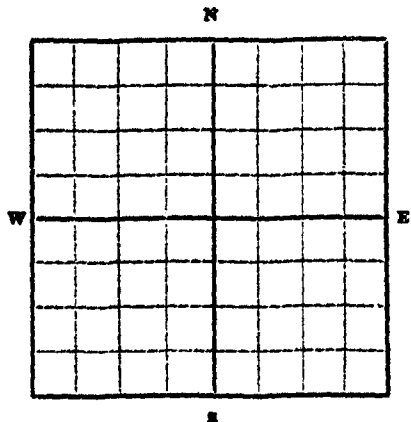
Contractor (if any) None

Address of Contractor None

Date Started 1/1/12 Date Completed 12/31/24

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. (not applicable)

Water was obtained by digging out spring, enclosing source and piping to tank at lower elevation.



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

..... 1/4 Sec..... T..... R.....

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

Quantity of water varies from 1/2 to 1 1/2 gallons

per minute as timed and measured. Periods of use

Location of springs shown on enclosed map of U. S. Range Livestock Experiment Station.

vary with amount of range feed available.

U.S.D.A., U. S. RANGE LIVESTOCK EXPERIMENT STATION  
Signature of Owner BY: J. P. Greenberry, Animal Husbandman  
in Charge  
Date 12/29/61

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

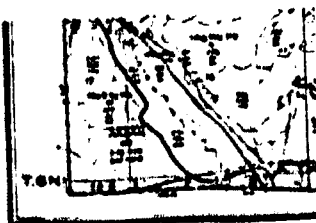
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

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.

SPRING LOCATIONS

| <u>Spring No.</u> | <u>Name of Pasture Located</u> | <u>Township No.</u> | <u>Range No.</u> | <u>Section No.</u> |
|-------------------|--------------------------------|---------------------|------------------|--------------------|
| 1                 | Blakely Creek (Gravel Pit)     | 7 North             | 46 East          | 10                 |
| 2                 | Lower Cottonwood               | 7 North             | 46 East          | 11                 |
| 3                 | Lower Cottonwood               | 8 North             | 46 East          | 35                 |
| 4                 | Spring Coulee                  | 8 North             | 46 East          | 36                 |
| 5                 | Field No. 1                    | 7 North             | 46 East          | 22                 |
| 6                 | "L" Pasture                    | 7 North             | 46 East          | 28                 |
| 7                 | North Custer Flat              | 7 North             | 46 East          | 28                 |
| 8                 | North Custer Flat              | 7 North             | 46 East          | 28                 |
| 9                 | Moon Creek                     | 6 North             | 46 East          | 8                  |
| 10                | Moon Creek                     | 6 North             | 46 East          | 16                 |
| 11                | Moon Creek                     | 6 North             | 46 East          | 16                 |



File No. ....

DUPLICATE

T. 6 N. R. 46 E.

County Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

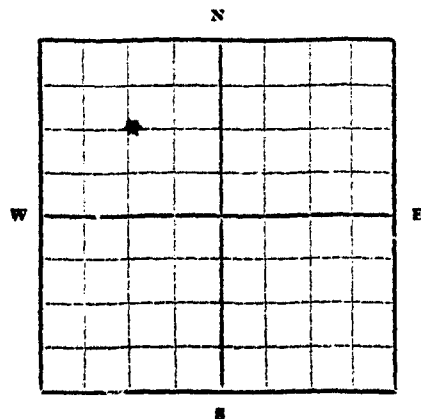
Miles City AFS  
Well No. 3

**Declaration of Vested Groundwater Right**

(Under Chapter 237, Montana Session Laws, 1961)  
ALBERT F. STRAUB, Chief, Acquisition Branch, Real Estate Division,  
U.S. ARMY ENGINEER DISTRICT, Seattle, for and on behalf of

STATE ENGINEER

1. THE UNITED STATES OF AMERICA, of 1519 Alaskan Way South, Seattle 4,  
(Name of Appropriator) (Address) (Town)  
County of King State of Washington  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 9 T. 6N R. 46 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 To be used by United States AF for its personnel in official duty.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been May 1958
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 40 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 Pumped from well as shown or described on well log.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commenced April 1958 - Completed May 1958
8. The depth of water table 360 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 8" - 1100 feet
10. The estimated amount of groundwater withdrawn each year 5,930,400 Gallons
11. The log of formations encountered in the drilling of each well if available See attached log
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

For and on behalf of THE UNITED STATES OF AMERICA through U.S. ARMY ENGINEER DISTRICT, Seattle, Real Estate Division

Signature of Owner

Albert F. Straub  
ALBERT F. STRAUB, CHIEF,  
Acquisition Branch

Date

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

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

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

1960



| DEPARTMENT OF THE ARMY   |       |  |   | 1. PROJECT<br><b>MILES CITY A.F.S., MONTANA</b>   |                      | SHEET <b>L</b><br>OF <b>5</b>   |  |
|--|-------|--|---|---|----------------------|---|--|
| DIVISION <b>NORTH PACIFIC</b>  |       |  |   | WATER SUPPLY  |                      |   |  |
| INSTALLATION <b>SEATTLE DISTRICT</b>   |       |  |   | 2. LOCATION (Coordinates or Station)<br><b>NN 1/4 SEC. 9, T. 6 N., R. 20 E., MPM</b><br><b>1300 FT. N 40 E OF W-2</b> |                      |   |  |
| DRILLING LOG   |       |  |   |   |                      |   |  |
| 3. HOLE NUMBER (As shown on drawing title and file No.)<br><b>W-3 CONTRACT 4350</b>                              |       |  |   | 4. DRILLING AGENCY<br><b>E. A. HOLMAN &amp; SON - SPOKANE, WASH.</b>  |                      |   |  |
| 5. ANGLE AND DIRECTION OF HOLE<br><input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED |       |  |   | 6. THICKNESS OF OVERBURDEN<br><b>19 FT.</b>   |                      | 7. DEPTH DRILLED INTO ROCK<br><b>1081 FT.</b>   |  |
|  |       |  |   | 8. TOTAL DEPTH OF HOLE<br><b>1100 FT.</b>   |                      |   |  |
| 9. SIZE AND TYPE OF BIT<br><b>10 INCH SPIRAL</b>   |       | 10. MFR. DESIGNATION OF DRILL<br><b>BUYRUS-ERIE 28-L</b> |   | 11. ELEVATION TOP OF HOLE<br><b>2780 FT. M.S.L.</b>   |                      | 12. TOTAL CORE RECOVERY   |  |
| 13. DEPTH AND ELEVATION TO GROUND WATER (STATIC LEVEL)<br><b>360 FT.</b>   |       | 14. TOTAL CORE RECOVERY                                  |   | 15. DATE HOLE<br>STARTED <b>25 APRIL 1958</b><br>COMPLETED <b>12 MAY 1958</b>   |                      | 16. INSPECTOR(S)<br><b>BURTON - CONSTRUCTION DIV.</b><br><b>GALESTER - ENGRNG. DIV.</b> |  |
| ELEVATION  | DEPTH | LEGEND   | CLASSIFICATION OF MATERIALS (Description)       | 1. CORE SECTION   | 2. BOX OR SAMPLE NO. | REMARKS (Water loss, drilling time, etc.)   |  |
| 2780   | 0     | SP & GP  | SAND & GRAVEL (POORLY GRADED)                   | OVERBURDEN  |                      | 10 INCH CASING  |  |
| 2761   | 19    | sh   | TOP OF ROCK                                     |   |                      | GROUT AROUND CASING TO DEPTH 20 FT.   |  |
| 2751   | 29    | sh   | BUFF TO YELLOW                                  | TONGUE RIVER M. FT. UNION FM.   |                      |   |  |
| 2742   | 38    | sh   | SANDY, YELLOWISH BROWN                          |   |                      |   |  |
|  |       | sh   | LIGHT GRAY, SOFT                                |   |                      |   |  |
| 2722   | 58    | sh   | BLUISH-GRAY, HARD                               |   |                      |   |  |
| 2690   | 90    | C  | BITUMINOUS & LIGNITE                            |   |                      |   |  |
| 2682   | 98    | sh   | BLACK, CARBONACEOUS                             |   |                      |   |  |
| 2672   | 108   | sh   | GRAY, HARD                                      |   |                      |   |  |
| 2642   | 138   | C  | LIGNITE & SUB-BITUMINOUS                        |   |                      |   |  |
| 2630   | 150   | sh   | GRAY, BUFF & BROWN WITH INTERBEDDED SANDY SHALE |   |                      |   |  |
|  | 190   |  |   |   |                      |   |  |

ENG FORM 1 JAN 50 1836

PROJECT **MILES CITY A.F.S., MONTANA** HOLE NUMBER **W-3**

485/71-12-04 ENT IN





| DEPARTMENT OF THE ARMY               |       |        |  | 1. PROJECT                           |                     | SHEET                       |   |
|--------------------------------------|-------|--------|--|--------------------------------------|---------------------|-----------------------------|---|
| DIVISION <u>NORTH PACIFIC</u>        |       |        |  | MILES CITY A.F.S., MONTANA           |                     | OF 5                        |   |
| INSTALLATION <u>SEATTLE DISTRICT</u> |       |        |  | 2. LOCATION (Coordinates or Station) |                     |                             |   |
| • DRILLING LOG (Continued)           |       |        |  | SEE SHT 1                            |                     |                             |   |
| ELEVATION                            | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS<br>(Description)                       | 5-<br>CORE<br>ELEVATION              | 5-<br>CORE<br>DEPTH | 5-<br>CORE<br>SAMPLE<br>NO. | REMARKS<br>(Water loss, drilling time, etc.)                  |
|                                      | 650   |        |  |                                      |                     |                             |   |
|                                      |       | sh     | DARK GRAY, PLASTIC,<br>WITH OCCASIONAL<br>STRATA OF SANDY<br>SHALE |                                      |                     |                             |   |
| 2086                                 | 697   |        |  |                                      |                     |                             |   |
| 2082                                 | 698   | sh     | BROWN, PLASTIC   |                                      |                     |                             |   |
|                                      |       | sh     | GRAY, PLASTIC  |                                      |                     |                             |   |
| 2064                                 | 716   |        |  |                                      |                     |                             |   |
| 2062                                 | 718   |        | sh - DARK GRAY, W/LIGNITE  |                                      |                     |                             |   |
|                                      |       | sh     | LIGHT GRAY &<br>SANDY SHALE  |                                      |                     |                             | TOP OF 8 INCH<br>CASING - 735 FT.                             |
| 2032                                 | 748   |        |  |                                      |                     |                             |   |
| 2022                                 | 758   | ss     | GRAY, HARD   |                                      |                     |                             | BOTTOM OF 10 INCH<br>CASING - 754 FT.                         |
|                                      |       | ss     | LIGHT GRAY,<br>ARGILLACEOUS  |                                      |                     |                             |   |
| 2001                                 | 779   |        |  |                                      |                     |                             | 779-799 FT.<br>PERFORATED PIPE<br>BASED #10 JOHNSON<br>SCREEN |
|                                      |       | ss     | LIGHT GRAY,<br>SLIGHTLY ARGILLACEOUS,<br>WATER BEARING             |                                      |                     |                             |   |
| 1982                                 | 798   |        |  |                                      |                     |                             |   |
| 1980                                 | 800   |        | sh - LIGHT BROWN   |                                      |                     |                             |   |
|                                      |       | sh     | GRAY, SANDY  |                                      |                     |                             |   |
| 1962                                 | 818   |        |  |                                      |                     |                             |   |
|                                      |       | sh     | LIGHT GRAY   |                                      |                     |                             |   |
| 1928                                 | 852   |        |  |                                      |                     |                             |   |
|                                      |       | sh     | DARK GRAY,<br>PLASTIC (IN PART)                                    |                                      |                     |                             |   |
| 1908                                 | 872   |        |  |                                      |                     |                             |   |
|                                      |       | sh     | GRAY TO BROWN  |                                      |                     |                             |   |
|                                      | 880   |        |  |                                      |                     |                             |   |

ENG FORM 1 JAN 50 1838a

PROJECT MILES CITY A.F.S., MONTANA HOLE NUMBER W-3

484/71-12-04 SHT 4



5283

**FILE**

At 2:50 O'Clock P.

July 30 1962

H. E. Anderson

County Clerk and Ex-Officio Recorder

Custer County, Montana

By

Deputy

File No. ....

DUPLICATE

T. 6N R. 46E

County. Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED

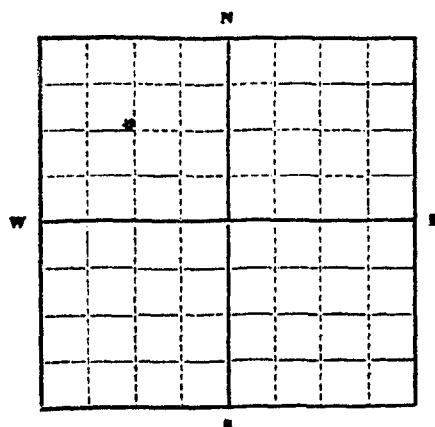
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

WELL # 1

1. United States Air Force Station of Miles City, Montana  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



N. 1/4 Sec. 9 T. 6 R. 46 East MPM

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 Water Supply
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been. 25 September 1953  
Continuous
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute)..... 20 Gallons per Minute
5. If used for irrigation, give the acreage and description of the lands  
to which water has been applied and name of the owner thereof  
Not Applicable - Domestic Use Only
6. The means of withdrawing such water from the ground and the  
location of each well or other means of withdrawal.....  
Submersible Deep Well Pumping

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater. Started Drilling 10 September 1953 - Completed 25 September 1953
8. The depth of water table..... 379.8'
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" Casing - 620.8' - Depth - Deep Well
10. The estimated amount of groundwater withdrawn each year..... 5,783,000 Gallons Per Year
11. The log of formations encountered in the drilling of each well if available.....  
Attachment # 1
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.....

*United States Air Force*  
Signature of Owner. *Albert J. Lovelinton*  
Date. *28 August 1962*

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

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

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

5557

**FILED**

At 9:20 O'Clock *A*  
Aug 20 1962  
*H. E. Anderson*  
County Clerk and Ex-Officio Recorder of  
Custer County, Montana  
*Ruth Root*  
Deputy



ATTACHMENT #1

Log on Well # 1 at 902ND Radar Squadron, Miles City Air Force Station, Montana

Surface to 45 ft - - - - - Yellow Clay  
 45 ft to 50 ft - - - - - Sand And Gravel  
 50 ft to 550 ft - - - - - Gray Gumbo  
 550 ft to 620 ft - - - - - Soft Sand Rock ( Water Sand)  
 4" Casing perforated from 483.3' to 549.9'  
 4" Casing perforated from 561.1' to 605.8'

Well drilling accomplished by George F. Askin  
 Miles City, Montana

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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.

File No.

T. 63 R. 46E

DUPLICATE

County Guster

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 WELL # 1  
(Elev. above sea level 2798.00)

Surface  
to  
45 Ft. Yellow Clay  
  
45  
to  
50 ft Sand And Gravel  
  
50  
to  
550 ft Gray Gumbo  
  
550  
to  
620 ft Soft Sand Rock  
(Water Sand)

Bottom of Well 620 Feet.

Water rises in well to  
379.8' below top of ground.

Owner United States Air Force Address Miles City Air Force,  
Station, Montana

Driller George F. Askin Address Miles City, Montana

Date of Notice of Appropriation of Groundwater 25 September 1953

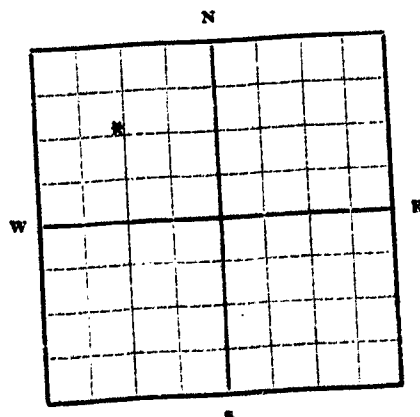
Date well started 10 Sept. 1953 Date Completed 25 Sept. 1953

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

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

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

| Size of Drilled Hole | Size and Weight of Casing | From (Feet) | To (Feet) | PERFORATIONS |             |           |
|----------------------|---------------------------|-------------|-----------|--------------|-------------|-----------|
|                      |                           |             |           | Kind Size    | From (Feet) | To (Feet) |
| 5"                   | 4" Casing                 | Surface     | 620'      | 12" Slotted  | 483'        | 549'      |
|                      | 24 Lbs. Per foot          |             |           |              | 561'        | 605'      |



NW 1/4 Sec. 9 T. 6 R. 46 East MPM

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

Show exact depth of bottom.

Static Water Level for non-flowing Well 379.8' feet.

Shut-in Pressure for Flowing Well Not Applicable

Pumping Water Level 490' feet at 20 gal. per minute.

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

How Tested Pumping Test Length of Test One Hour

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

Cementing. Domestic use only

Montana #50  
Driller's License Number

George F. Askin  
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.

2030

5556

5556

**F I L E D**

At 9:15 O'Clock A.M.

Aug 28 1962

H. E. Anderson

County Clerk and Ex-Officio Recorder of

Custer County, Montana

By Ruth Rask

Deputy

File No. ....

T. 6N R. 46E

DUPLICATE

County. Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED

Declaration of Vested Groundwater Rights

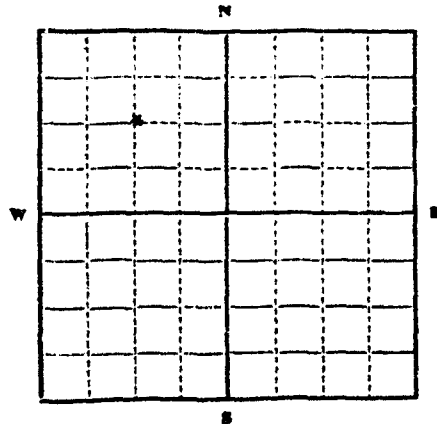
WELL # 2

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

United States Air Force Station of Miles City, Montana  
(Name of Appropriator) (Address) (Town)

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



NW 1/4 Sec. 9 T6 R46 East NPM

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 Water Supply

3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been 8 February 1957  
Continuous

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

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

Not Applicable - Domestic Use Only

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

Submersible Deep Well Pumping

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater. Started Drilling 5 February 1957 Completed Approximately  
8 February 1957

8. The depth of water table. 3771 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.

Attachment # 1

10. The estimated amount of groundwater withdrawn each year.

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

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

Signature of Owner

Date 28 August 1962

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

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

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

5559  
5559

FILED

At 9:30 O'Clock A.M.

Aug 28 1962

H. E. Anderson

County Clerk and Ex-Officio Recorder

Guster County, Montana

Ruth Rack

Deputy

ATTACHMENT # 1

Log on Well # 2 at 902ND RADAR SQUADRON, Miles City Air Force Station, Montana

Surface to 45 ft - - - - - Yellow Clay  
45 ft to 50 ft - - - - - Sand And Gravel  
50 ft to 550 ft - - - - - Gray Gumbo  
550 ft to 645 ft - - - - - Soft Sand Rock (Water Sand)

Static Water Level 377' below Topography  
645 ft 8" black Standard Casing at 24 lbs per foot.  
95 ft of slotted 8" casing through water sand.

Drilled by George F. Askin, completed 8 February 1957

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.

2032

GW 2

File No.

DUPLICATE

Three two  
9162-Office 2032 and County 16-555  
of 16 A " 2033 " " " 5557  
are for same well

T. 6N R. 46E

County. Custer

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)

Top of Ground WELL # 2  
(Elev. above sea level. 2798.00)

Surface  
to  
45 ft. - - - Yellow Clay

45  
to  
50 ft. - - - Sand And Gravel

50  
to  
550 ft Gray Gumbo

550  
to  
645 ft Soft Sand Rock  
(Water Sand)

Static Level of Well  
377' from Top of  
Ground

Bottom of Well  
645'

Owner. United States Air Force Address. Miles City Air Force  
Station, Montana

Driller. George F. Askin Address. Miles City, Montana

Date of Notice of Appropriation of Groundwater 8 February 1957

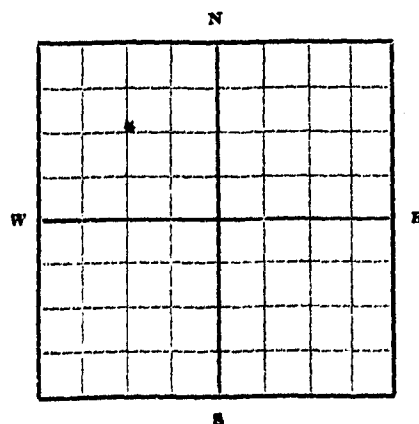
Date well started 5 February 1957 Date Completed 8 February 1957

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

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

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

| Size of Drilled Hole | Size and Weight of Casing               | From (Feet) | To (Feet) | PERFORATIONS |             |           |
|----------------------|---|-------------|-----------|--------------|-------------|-----------|
|                      |   |             |           | Kind Size    | From (Feet) | To (Feet) |
| 9"                   | 8" Black Pipe<br><br>24.70 lbs per foot | Surface     | 645'      | 12" Slots    | 550ft       | 645ft     |



NW 1/4 Sec. 9 T. 6 R. 46 East MPH

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

Show exact depth of bottom.

Static Water Level for non-flowing Well 377' feet.

Shut-in Pressure for Flowing Well Not Applicable

Pumping Water Level 488' feet at 20 gal. per minute.

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

How Tested Pumping Test Length of Test One Hour

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

acres irrigated, if used for irrigation)

Cementing— Domestic Use Only

Montana #50  
Driller's License Number

George F. Askin  
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.

2032

5558

**F I L E D**

At 9:25 O'Clock A.M.

Aug 28 1962

N. E. Anderson

County Clerk and Ex-Officio Recorder of

Custer County, Montana

Ruth Reed

Deputy



GW 2

File No. ....

DUPLICATE

T. 6. N. R. 46. E.

County CUSTER

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JUN 20 1962  
STATE ENGINEER

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

(Under Chapter 237, Montana Session Laws, 1961)

U.S. Range Livestock Exp.

Owner U.S. Dept. of Agriculture Address Station, Miles City, Mont

Driller A. S. K. in Drilling Address Miles City Mont

Date of Notice of Appropriation of Groundwater June 5, 1962

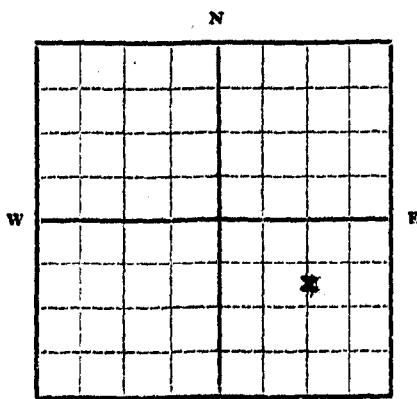
Date well started April 1962 Date Completed April 11, 1962

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

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

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

| Size of Drilled Hole | Size and Weight of Casing | From (Feet) | To (Feet) | PERFORATIONS |             |           |
|----------------------|---------------------------|-------------|-----------|--------------|-------------|-----------|
|                      |                           |             |           | Kind Size    | From (Feet) | To (Feet) |
| 6"                   | 4"                        | 0           | 280       | 4"           | 170         | 280       |



1/4 Sec. 36 T. 46 N. R. 46 E.

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

Show exact depth of bottom.

Static Water Level for non-flowing Well 110 feet.

Shut-in Pressure for Flowing Well Not applicable

Pumping Water Level 180 feet at 15 gal. per minute.

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

How Tested Bailing Length of Test 12 hrs

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

acres irrigated, if used for irrigation)

Cemented from top of water  
sand to surface

Driller's License Number 50

Driller's Signature George F. Askin

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.

896

4615

**FILE**

At 10:45 O'Clock A.

June 6 1962

A. Z. Anderson

County Clerk and Ex-Officio Recorder

Richmond County, Georgia

## GROUNDWATER INDEX

Page        of       

County CLUSTER

Twp.

6N

**Rge.**

47E

[illegible]

File No. 2967

DUPLICATE

County CUSTER

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 25 1962

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

STATE ENGINEER

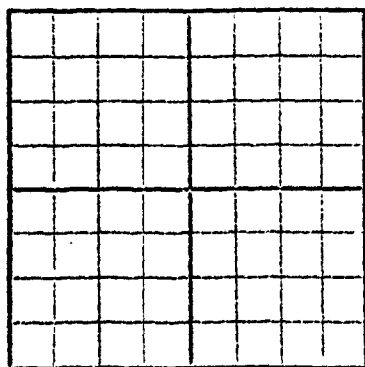
1 U. S. DEPARTMENT OF AGRICULTURE  
(Name of Appropriator)

U. S. RANGE LIVESTOCK EXPERIMENT STATION  
of BOX 810, MILES CITY  
(Address) (Town)

County of CUSTER

State of MONTANA

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



1/4 Sec. T. R.

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

2. The beneficial use on which the claim is based Furnish water for domestic use and for watering livestock.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been See Item 3, Exhibit I.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) See Item 4, Exhibit I.

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 See Exhibit I and II for location. Wells equipped with windmills and auxiliary engines.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater See Item 7, Exhibit I.

8. The depth of water table See Item 8, Exhibit I. Water table given is depth to water bearing sands pumped.

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 See Exhibit III. 1000 ft. of wells that are available.

10. The estimated amount of groundwater withdrawn each year See Item 10, Exhibit I.

11. The log of formations encountered in the drilling of each well if available See Exhibit III. Available 1000 ft.

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 See filing records.

U. S. D. A., U. S. RANGE LIVESTOCK EXP. STATION

Signature of Owner

J. H. Lusterberry, Animal Husbandman in Charge  
Date 1/24/62

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.

## EXHIBIT 1.

| ITEM NUMBER           | Well Identification | Map Number | Section | Township | Range | 1/4 Sec. | (3)<br>Date of Earliest and Continuous Use | (4)<br>Gallons Per Minute Claimed | (7)<br>Date Drilled | (8)<br>Depth of Water Table | (10)<br>Estimated Gallons Ground-Water Pumped Each Year |
|-----------------------|---------------------|------------|---------|----------|-------|----------|--|-----------------------------------|---------------------|-----------------------------|---|
| No. 2 Well            |                     | 123        | 13      | 7N       | 47E   | NE       | 1948 to 1962                               | 10                                | July 1948           | 210 ft.                     | 359,856   |
| No. 3 Pasture Well    |                     | 131        | 7       | 6N       | 47E   | NW       | 1950 to 1962                               | 5                                 | No record           | 22 ft.                      | 105,754   |
| No. 3 Well            |                     | 132        | 3       | 6N       | 47E   | NE       | Prior to 1924-1962                         | 10                                | No record           | No log                      | 158,630   |
| No. 7 Well            |                     | 133        | 26      | 6N       | 46E   | SE       | Prior to 1924-1962                         | 10                                | No record           | No log                      | 335,866   |
| No. 1 Well            |                     | 134        | 17      | 7N       | 46E   | NW       | Prior to 1924-1962                         | 10                                | No record           | No log                      | 246,758   |
| Custer Flat Well      |                     | 136        | 4       | 6N       | 45E   | SE       | 1935 to 1962                               | 2                                 | Oct. 1935           | 412 ft.                     | 112,435   |
| Lower Lignite Well    |                     | 137        | 2       | 6N       | 46E   | NW       | Prior to 1924-1962                         | 5                                 | No record           | No log                      | 185,069   |
| Upper Lignite Well    |                     | 138        | 12      | 6N       | 46E   | NE       | 1948 to 1962                               | 10                                | July 1948           | 620 ft.                     | 287,885   |
| Upper Coal Creek Well |                     | 139        | 31      | 6N       | 46E   | SW       | 1942 to 1962                               | 12                                | June 1942           | 289 ft.                     | 89,467  |
| 2 C Bend Well         |                     | 140        | 36      | 6N       | 47E   | SW       | 1950 to 1962                               | 10                                | June 1950           | 14 ft.                      | 143,942   |
| Camel Back Well       |                     | 141        | 4       | 7N       | 46E   | SW       | 1947 to 1962                               | 10                                | Feb. 1947           | 616 ft.                     | 215,914   |
| Indian Creek Well     |                     | 142        | 24      | 6N       | 46E   | NW       | 1947 to 1962                               | 12                                | Feb. 1947           | 615 ft.                     | 188,006   |
| Blackely Creek Well   |                     | 143        | 4       | 7N       | 46E   | SW       | 1942 to 1962                               | 6                                 | June 1942           | 680 ft.                     | 89,467  |
| Domestic Well #1      |                     | 144        | 8       | 7N       | 46E   | NE       | 1955 to 1962                               | 60                                | June 1955           | 420 ft.                     | 677,520   |
| Domestic Well #2      |                     | 145        | 7       | 7N       | 46E   | NE       | 1958 to 1962                               | 250                               | Oct. 1958           | 495 ft.                     | 677,520   |
| Witchery Well         |                     | 146        | 12      | 7N       | 46E   | SE       | No record                                  | 1.5                               | No record           | 600 ft.                     | 699,048   |
| Meadow Well           |                     | 147        | 13      | 7N       | 46E   | NE       | 1960 to 1962                               | 10                                | July 1960           | 20 ft.                      | 156,519   |
| Field 3 Well          |                     | 148        | 13      | 7N       | 46E   | NE       | 1961 to 1962                               | 5                                 | Oct. 1960           | 102 ft.                     | 173,300   |
| Hog Back Well         |                     | 149        | 26      | 6N       | 47E   | SW       | 1932 to 1962                               | 4                                 | May 1932            | 194 ft.                     | 146,880   |
| Pine Pine Well        |                     | 150        | 24      | 6N       | 46E   | SW       | 1932 to 1962                               | 4                                 | May 1932            | 115 ft.                     | 146,880   |

## GROUNDWATER INDEX

Page      of

County CLUSTER Twp. 6N Rge. 48E

[illegible]

File No. ....

T. 6 R. 48E

DUPLICATE

County Custer

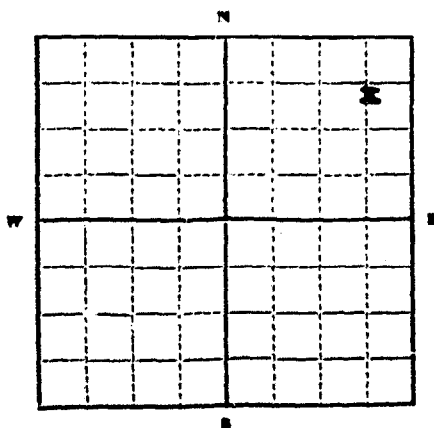
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
OCT 24 1963

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

STATE ENGINEER

1. Joe S. Dent of 2102 Stover St. Miles City  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 6 T. 6 R. 48E

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 From August 23, 1963, continuous from that date.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 20 g.p.m.
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 Water is pumped to the surface by 1/2 h.p. electric pump. One well located in Lot 1, Section six, Twp. 6 range 48 E.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Drilling commenced August 20, 1963, completed August 22, 1963
8. The depth of water table 210 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, depth 240 feet, with 4" casing. Water level 52 feet, draw down 72 feet.
10. The estimated amount of groundwater withdrawn each year 300,000 gallons
11. The log of formations encountered in the drilling of each well if available.  
0-30' Yellow clay      235-240' grubs  
30-210' Gray grubs  
210-235' water sand
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 Joe S. Dent

Date September 5, 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.

6633

10038

**F I L E**

At 11:35 O'Clock A.

Dec. 13 1863

N. S. Anderson

County Clerk and Ex-Officio Recorder of  
Foster County, Montana

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

RECEIVED



File No.

DUPLICATE

T. T6 R 45

County

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

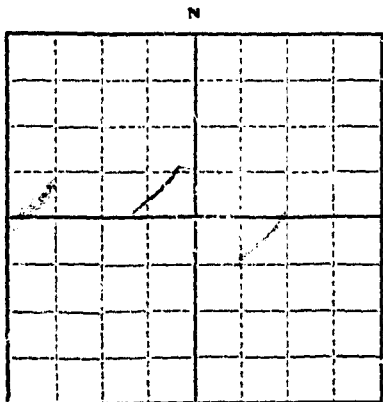
RECEIVED  
DEC

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Morman Wardlaw of Miles City  
(Name of Appropriator) (Address) (Town)

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



NW NE 6 6 48  
1/4 Sec. T. 6 R. 48

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  
Domestic

3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been 9/4/44

4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 3 g.p.m.

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater 9/4/44 9/4/44

8. The depth of water table 60 ft

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other  
works for the withdrawal of groundwater 2 1/2" casing 109 ft 2" casing 74 ft Perforation

10. The estimated amount of groundwater withdrawn each year

11. The log of formations encountered in the drilling of each well if available 0-20 top soil  
20-37 ft gravel 37 to 132 gumbo 133-225 sand

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 30-63

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.

14078

112.35

FILED

At 1:32 O'Clock P.

Dec 30 1963

*H. E. Anderson*  
County Clerk and Ex-Officio Recorder of

Custer County, Montana

By *David R. [illegible]*

File No.

DUPLICATE

FILED 17 1961

T. 117

R. 117

County. Carter

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JUL 12 1961

RECEIVED  
JAN 2 1962

Notice of Appropriation of Groundwater

STATE ENGINEER

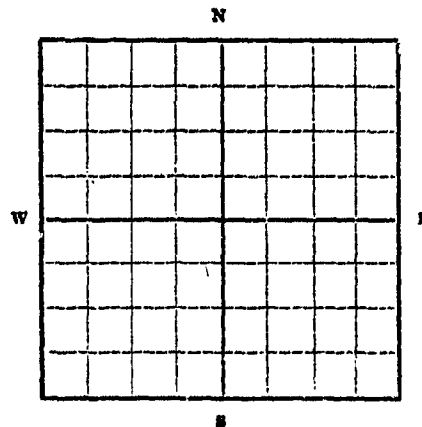
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. I, Frank S. Smith Hammon, of Miles City Mont  
(Name of Appropriator) (Address) (Town)  
County of Carter, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is Irrigation + livestock  
(describe lands to be benefited, if for irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed 100 gal. per minute
4. The annual period (inclusive dates) of intended use year around
5. The probable or intended date of first beneficial use Dec. 28, 1961
6. The probable or intended date of commencement and completion of the well\* or wells\*
7. The location, type, size and depth of well or wells contemplated explained on form no 18.
8. The probable or estimated depth of the water table or artesian aquifer See form no 18
9. Name, address and license number of the driller engaged See form no 18

10. Give such other similar information as may be useful in carrying out the policy of this act.

I am appropriating all  
ground water on described  
property. Sec. 2-5-48; Sec. 4-5-48  
Sec. 28-5-50; Sec. 36-6-48



1/4 Sec. T. R.

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Frank S. Smith Hammon

Date Dec. 28, 1961

\* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

Three copies of this notice are to be filed with 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.

No. 18

T. 6 R. 48County CusterMONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

## Water Well Log

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Owner State Land Leased by Address Miles City  
Frank Wamm  
 Driller Boyd Higgins Address Miles City  
 Date Started Sept 27, 1960 Date Completed Sept 30, 1960  
 Location: Sec. 36 T. 6 R. 48  $\frac{1}{4}$  sec. NE 1/4

Type of well drilled Equipment used drill  
(Dig, driven, or drilled) (Cable, drill, rotary, other)

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

Casing: 175 ft. to \_\_\_\_\_ ft. Type steel Size 4 in

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

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

Perforated or screened: Ft. \_\_\_\_\_ to ft. \_\_\_\_\_. Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations \_\_\_\_\_

Static water level, for non-flowing well: 70 feet.Shut-in pressure, for flowing well: \_\_\_\_\_ lb./sq. in. on: \_\_\_\_\_  
(date)Pumping water level 100 feet at 10 gal. per min. \_\_\_\_\_How tested: bailed by driller

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

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

(over)

## Log of Well

[illegible]

## GROUNDWATER INDEX

Page        of       

County CLUSTER

Twp. 6N

Rge. 49E

[illegible]

RECEIVED  
NOV 23 1957  
STATE ENGINEER

T. 6N R 49E  
County Custer

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Owner H. J. Kyhl Address Millon City, Montana  
Driller I. G. Bond Address Terry, Montana  
Date Started Nov. 12, 1957 Date Completed Nov. 23, 1957  
Location: Sec. 1 T. 6N R. 49E 1/4 sec. NW 1/4

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

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

Casing: Surface ft. to 220 ft. Type steel Size 4"

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

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

Perforated or Screened: Ft. 170 to ft. 192 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations Burns with torch

Static Water level, for non-flowing well: Water rose just 50 feet feet.

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

Pumping water level 40 feet at 6 gal. per min.

How tested: Bailer

Length of test: 3 hours

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

(over)

### Log of Well

| Depth, feet |     | Description of Material Drilled |
|-------------|-----|---------------------------------|
| From        | To  |                                 |
| 0           | 14  | gumbo                           |
| 14          | 15  | rock                            |
| 15          | 19  | gravel and clay                 |
| 19          | 24  | sand rock                       |
| 24          | 56  | gumbo                           |
| 56          | 60  | blue clay                       |
| 60          | 78  | dark gumbo                      |
| 78          | 80  | rock                            |
| 80          | 106 | gumbo                           |
| 106         | 107 | rock                            |
| 107         | 120 | gumbo                           |
| 120         | 121 | rock                            |
| 121         | 138 | gumbo                           |
| 138         | 140 | rock                            |
| 140         | 145 | gumbo                           |
| 145         | 147 | rock                            |
| 147         | 154 | gumbo                           |
| 154         | 158 | coal and a little water         |
| 158         | 170 | gumbo                           |
| 170         | 192 | water sand                      |
| 192         | 220 | gumbo                           |

188712



File No. ....

T. 6N R. 49E

DUPLICATE

County Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JUN 19 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

Giesicke Brothers, a co-partnership, consisting of

Richard Giesicke & Ralph Giesicke of Box 221

Miles City

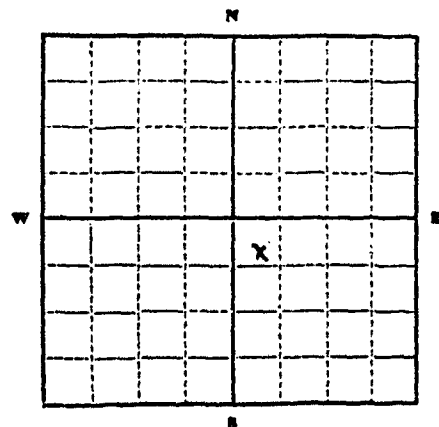
(Name of Appropriator)

(Address)

(Town)

County of Custer State of Montana

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



SE 1/4 Sec. 34 T. 6N R. 49E

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

2. The beneficial use on which the claim is based.....  
Watering livestock
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been.....Has been used continuously  
for more than 10 years.
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute).....5 gallons per minute.
5. If used for irrigation, give the acreage and description of the lands  
to which water has been applied and name of the owner thereof  
No irrigation.
6. The means of withdrawing such water from the ground and the  
location of each well or other means of withdrawal.....  
Windmill
7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater.....More than 10 years prior to making this declaration,  
but exact date unknown.
8. The depth of water table.....Unknown.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other  
works for the withdrawal of groundwater.....  
Depth of well 200 feet.
10. The estimated amount of groundwater withdrawn each year.....Unknown, but pumps 5 gallon  
per minute.
11. The log of formations encountered in the drilling of each well if available.....  
Appropriator knows of no log formations, as well was drilled  
before present owners purchased land.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including  
reference to book and page of any county record.....  
No other information known.

GIESICKE BROTHERS

Signature of Owner By Richard Giesicke

Date February 21, 1963

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

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

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

2678

**F I L E D**

At 9:00 O'Clock A. M.

June 17 1963

H. A. Anderson

County Clerk and Ex-Officio Recorder of  
Custer County, Montana

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

STATE ENGINEER

## GROUNDWATER INDEX

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County CUSTER Twp. 6N Rge. 50E

[illegible]

File No.....

T. 6N R. 50E

DUPLICATE

County.....Custer

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

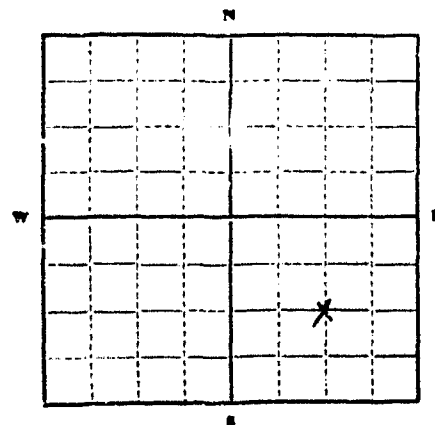
RECEIVED  
JUN 19 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

Giesicke Brothers, a co-partnership, consisting of  
1 Richard Giesicke & Ralph Giesicke of Box 221 Miles City  
(Name of Appropriator) (Address) (Town)  
County of Custer State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 33 T. 6N. R. 50E

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

2. The beneficial use on which the claim is based.....  
Watering livestock
3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been...Has been used continuously  
for more than 10 years.
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute)...3 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  
No irrigation
6. The means of withdrawing such water from the ground and the  
location of each well or other means of withdrawal.....  
Windmill
7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater...More than 10 years prior to making this declaration,  
but exact date unknown.
8. The depth of water table...Unknown.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other  
works for the withdrawal of groundwater.....  
Depth of well 312 feet.
10. The estimated amount of groundwater withdrawn each year...Unknown, but pumps 3 gallon  
per minute.
11. The log of formations encountered in the drilling of each well if available...0-20 surface soil;  
20-60 blue shale; 60-64 coal; 64-155 blue shale; 155-198 sandstone;  
198-240 blue shale; 240-290 coal and sand; 290-310 grey shale.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including  
reference to book and page of any county record...No other information known.

GIESICKE BROTHERS

Signature of Owner By Richard Giesicke

Date February 21, 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.

8678

**F I L E D**

At 8:50 O'Clock A.M.

June 17 1963

*H.E. Anderson*

County Clerk and Ex-Officio Recorder  
Custer County, Montana

By \_\_\_\_\_

RECEIVED  
JUN 17 1963  
CUSTER COUNTY, MONTANA