State of Montana, County of Fergus

Filed: DEC 1 1963
at: 10:00 o'clock A.M.

MAY RATHBUN
County Clerk and Recorder
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 287 Montana Session Laws, 1961, as amended)

Driller: George K. Kinney
Address: Lusk, Wyoming

Date of Notice of appropriation of groundwater: June 1, 1968
Date well started: June 1, 1968
Date completed: June 5, 1968

Type of well: Drilled
Equipment used: Rotary

Water use: Domestic

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.

Static Water Level for non-flowing well
Shut-in Pressure for Flowing Well
Pumping Water Level
Discharge in gal. per min. of flowing well

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

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

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

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
State of Montana
County of Fergus

Filed SEP 27, 1972
at 10:00 o'clock A.M.

May Pettit
County Clerk and Recorder

Fee Paid $2.00
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

J. A. and L. Brooks, of Suffolk

County of Fergus
State of Montana

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

1. The beneficial use on which the claim is based: Household use and livestock water.

2. The date or approximate date of earliest beneficial use, and how continuous the use has been: January 20, 1961, and continuous.

3. The amount of groundwater claimed: Twelve gallons per minute.

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

5. The location of the well or other means of withdrawal:

6. The means of withdrawing such water from the ground and the location of the well or other means of withdrawal: 3/4 Horse Power.


8. The depth of water table: 150 feet.

9. The sizes and types of each well or the general specifications of any other works for the withdrawal of groundwater:

10. The estimated amount of groundwater withdrawn each year: 2,000,000 gallons.

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: Leonard Brooks
Date: December 27, 1963

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

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Neil Haight, Grace Virginia Paterson and
1. Katherine Haight Day, co-tenants
   (Name of Appropriator) (Address) (Town)

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

2. The beneficial use on which the claim is based: stock water, household use, irrigation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Approximately 1920

4. The amount of groundwater claimed (in. rainner's inches or gallons per minute): 20 gal. per minute

5. If used for irrigation, give the average and description of the lands to which water has been applied and name of the owner thereof: Approximately 5 acres consisting of household, garden, and shelterbelt at farmstead

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   Electrically-driven cylinder deep well pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: This was done by father of declarers - believed to be about 1920

8. The depth of water table: Not known

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: Believe the well to be approximately 130 ft. deep - drilled well, 6" casing

10. The estimated amount of groundwater withdrawn each year: 600,000 gal

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

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

Signature of Owner... Neil Haight
Date: 5-15-63

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.
State of Montana,
County of Fergus

Filed NOV 26 1963
At 2:13 o'clock P.M.

Walter Rutland
County Clerk and Recorder
File No. 16451

DUPLICATE

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Uniform § 237, Montana Session Laws, 1961)

Neill Haight, Grace Virginia Peterson and

Katherine Haight Day, co-tenants

(Name of Appropriate) Address (Town)

County of Fergus State of Montana

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: November 1961

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater commenced and completed during October 6 November, 1961.

8. The depth of water table: 20 feet approximately

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 = 17 feet; dug well cased with 24" pipe.

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

11. The log of formations encountered in the drilling of each well if available: No 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: None

Signature of Owner: Neill Haight

Date: 5-15-63

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.
State of Montana,
County of Powell,

Filed at 2:15 a.m.

NOV 26 1963

Mary Matthews
Clerk and Recorder

*2200d*
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws. 1961)

Owner: Ollie White Address: Suffolk, Montana
Driller: George O. Singley Address: Levistown, Montana

Date of Notice of appropriation of groundwater: None

Type of well: Drilled Equipment used: Rotary
Drill: Driven, bored or drilled

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

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<th>Size of Drilled Hole</th>
<th>Size and Weight of Drill</th>
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<th>To (Feet)</th>
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<tr>
<td>5-5/8&quot; 4-3/4&quot;</td>
<td>ADJ 260</td>
<td>0 245</td>
<td>245 410</td>
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</table>

Static Water Level for non-flowing well: 30 feet below ground
Shut-in Pressure for Flowing Well: None
Pumping Water Level: 130 feet
Discharge in gal. per min. of flowing well: None

How Tested: Sealed
Length of Test: 3 hrs.
Remarks: (Gravel packing, cementing, packer, type of shutoff) Sealed with show. Hole filled with gravel.

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

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, these copies to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
State of Montana,
County of Fergus

Filed... OCT 1 1965
11:10 a.m. 9 clock 17. 4.

Mary E. Pethan
Clerk and Recorder

STATE WATER CONSERVATION BOARD

Oct 4 1965
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: [Name]
Address: [Address]

Drilled by: [Name]
Address: [Address]

Date Started: 1916
Date Completed: 1916

Location: Sec. 28, T.20N.R.18E, 4th. N.W.1/4

Type of well: Drilled
Equipment used: [Type]

Water use: Domestic
Municipal
Stock
Irrigation

Type of screen or perforations: [Type]

Casing: 8" o.d., 7.5" i.d., [Size]

String: [Type], [Size]

Perforated or Screened: [Type], [Size]

Static Water level, for non-flowing well: 8 135'.

Shut-in pressure, for flowing well: 8 lb. per sq. ft.

Bubbling water level: [Feet]

Water level and discharge as of:

How tested: [Type]

Length of test: [Duration]

Remarks: [Remarks]

(over)
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</table>

Signature: __________________________
Date: __________
County Clerk and Recorder
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Mildred S. Ayers
   (Name of Appropriator)
   (Address)
   (Town)
   County of
   (Town)
   State of

2. The beneficial use on which the claim is based: DRINKING WATER FOR
   LIVESTOCK AND GARDENING AND DWELLING SITE IRRIGATION

3. Date or approximate date of earliest beneficial use; and how continuous
   the use has been: April 1930 and continuously thereafter

4. The amount of groundwater claimed (in miner's inches or gallons
   per minute): 30 gallons

5. If used for irrigation, give the acreage and description of the lands
   to which water has been applied and name of the owner thereof
   approximately 2 acres — in the description given on
   plot at left — Mildred S. Ayers

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

7. The date of commencement and completion of the construction of the well, wells, or other works for with-
   drawal of groundwater: April 1930 to 1954 by manual hand pump; 1954 to present time
   electrical pump

8. The depth of water table: 10 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other
   works for the withdrawal of groundwater: 4 feet in diameter and 20 feet deep — Brick lined
   Hand dug

10. The estimated amount of groundwater withdrawn each year: 50,000

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

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

Signature of Owner

Date 1/2/1930

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of
Mines and Geology, and Quadruplicate for the Appropriator.
State of Missouri
File No. 01

Filed DEC 27 1963
at 2:30 o'clock P.M.

M. R. McPherson
County Clerk and Recorder

2nd pt.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. MILDRED S. AYCOG, of ____________________________
   (Address) (Town)
County of ____________________________ State of MONTANA

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

2. The beneficial use on which the claim is based:
   DRINKING WATER FOR HUMAN AND LIVESTOCK CONSUMPTION
   Date or approximate date of earliest beneficial use; and how continuous the use has been: APRIL 1960 and continuously thereafter

3. The amount of groundwater claimed (in miner's inches or gallons per minute): 30 gallons per minute

4. 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)

5. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   CENTRIFUGAL ELECTRIC PUMP

6. The depth of water table: 12 feet

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: September 1962 for the present centrifugal electric pumping system. April 1960 to September 1962 the water was withdrawn by manual means

8. The depth of water table: 12 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 feet in diameter and 18 feet deep. This well was and is still a hand dug shiff well.

10. The estimated amount of groundwater withdrawn each year: 912,500 gallons

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

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

Signature of Owner: MILDRED S. AYCOG
Date: 1/2/62

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

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

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

Filed: DEC 27 1963
at 2:30 o'clock P.M.

__ Deed __

County Clerk and Recorder

25p.
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

State of Montana
Administrator of Groundwater Code
Office of State Engineer

Declares Vested Groundwater Rights

Neill Bight, Grace Virginia Peterson and
Katherine Bight Day, co-tenants, of Billings, Montana

County of Fergus, State of Montana

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

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

2. Date or approximate date of earliest beneficial use; and how continuous the use has been: approximately 1925

3. The amount of groundwater claimed (in miner's inches or gallons per minute): 5 gal. per minute

4. 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

5. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: approximately 1925

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: not applicable

7. The depth of water table: not known

8. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: not applicable

9. The estimated amount of groundwater withdrawn each year: 1,000,000 gal.

10. The log of formations encountered in the drilling of each well if available: none

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

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

Signature of Owner: Neill Bight
Date: 5-15-63

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.
State of Montana, ss.
County of Fergus

Filed NOV 26 1963

[Signature]

[Title]

[Name]

County Clerk and Recorder

16458
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>Neil Haight, Grace Virginia</th>
<th>co-tenants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peterson and Katherine Haight Day</td>
<td>of</td>
</tr>
<tr>
<td>(Name of Appropriator)</td>
<td>(Address)</td>
</tr>
<tr>
<td>County of</td>
<td>Fergus</td>
</tr>
</tbody>
</table>

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1930
   - continuous

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. not applicable

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

8. The depth of water table. surface

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

   Excavation approximately 30 ft. diameter - 15 ft. deep.
   Area fenced to prevent livestock entering.

10. The estimated amount of groundwater withdrawn each year. 2,000,000 gal.

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

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

Signature of Owner: Neil Haight
Date: 5-15-63

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.
State of Montana,
County of Fergus

Filed: Nov. 26, 1963 10
at 2:15 p.m.

Mary Matthews
County Clerk and Recorder

[Signature]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

(State of Montana)

[Signature of Owner] [Date of Action]

1. United States of America
   (Name of Appropriator)

County of [Name of County]
   (Address)

State of [Name of State]
   (Town)

[Signature of Owner] [Date of Action]

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   29 September 1960
   Continuous use

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 2 gallons per minute

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   Started: 25 September 1960
   Completed: 29 September 1960

8. The depth of water table:
   356 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
   Drilled vertical well - 450 feet

10. The estimated amount of groundwater withdrawn each year:
    2800 gallons

11. The log of formations encountered in the drilling of each well if available:
    Sand, Shale, Sandstone, and Lignite

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:

WITNESS:

[Signature of Owner]

United States of America

[Signature of Owner]

Date [Date of Action]

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

1. JAMES HAMILTON ................................. of Hilger .................................
   (Name of Appropriate) ........................... (Address) .............................
   County of ........................................ State of ..............................
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

2. The beneficial use on which the claim is based. Household use, general farmyard water and lawn irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Continues use since about 1920

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 10 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. One well. Two hundred feet (600') from dwelling. Water is withdrawn by electrical pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Approximately 1920

8. The depth of water table. Four feet under ground level

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Hand dug well twelve feet (12') deep, four feet (4') square

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

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

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

This Declaration was presented in my office for filing on the 31st day of December 1963, and was returned because of no signatures appearing on carbon copies.

Signature of Owner. James Hamilton

Date. December 31, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<tr>
<td>Owner</td>
<td>Milton Richter</td>
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<tr>
<td>Address</td>
<td>Butte, Montana</td>
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<tr>
<td>Driller</td>
<td>George K. Bailey</td>
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<tr>
<td>Address</td>
<td>Butte, Montana</td>
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<td>Date Started</td>
<td>April 21, 1969</td>
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<td>August 7, 1969</td>
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<td>Equipment used</td>
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<tr>
<td>Casing</td>
<td>1 ft. to 15 ft.</td>
<td>Type: C &amp; B</td>
<td>Size: 3 1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>Casing</td>
<td>15 ft. to 390 ft.</td>
<td>Type:</td>
<td>Size:</td>
<td></td>
</tr>
<tr>
<td>Perforated or Screened</td>
<td>175 ft. to 310 ft.</td>
<td>Type:</td>
<td>Size:</td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well</td>
<td>Ft.</td>
<td>Ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well</td>
<td>Cm.</td>
<td>lb/sq. in. on:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumping water level</td>
<td>150 feet</td>
<td>6 gal. per min.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>How tested</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of test</td>
<td>Ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>(over)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 136</td>
<td>Brown and shale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>126 130</td>
<td>Top of Judith river formation, white rock, brown rock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>130 145</td>
<td>White rock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>145 150</td>
<td>Brown rock here</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150 154</td>
<td>Rive white silicate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>154 170</td>
<td>White shale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>170 180</td>
<td>Dark grey shale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>180 196</td>
<td>Shale and rock, brown tint, some water 1 ft/gal, min.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>186 192</td>
<td>White rock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>192 195</td>
<td>Brown shale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>195 210</td>
<td>White rock and shale, water ½ gal/min.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>210 225</td>
<td>Coal shale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>225 230</td>
<td>Coal sandstone, water 4 gals./per min.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>230 237</td>
<td>Sandstone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>237 240</td>
<td>Hole</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

Owner: Milton Butcher  Address: Minford, Montana

Driller: George O. Singleton  Address: Letham, Montana

Date of Notice of Appropriation of Groundwater: Aug. 1, 1960  Date Completed: Nov. 1, 1962

Type of well: Drilled  Equipment Used: G. Tool & Rotary (dug, driven, bored or drilled)

Water Use: Domestic  Municipal  Other  Irrigation  Industrial  Drainage  Stock

Strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc.

Depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Static Water Level for non-flowing Well: feet.

Shut-in Pressure for Flowing Well: 200 feet.

Pumping Water Level: feet per minute.

Discharge in gal. per min. of flowing well: 4 gal.

How Tested: MEASURING

Length of Test: 2 hr.

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).

Sealed with anchor packer at 455 feet.

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
516 520 Hard rock
530 532 Soft conglomerate 
540 542 Shale-reef limestone
550 558 Soft limestone 
568 Soft limestone 

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Ewen Smith
Address: Missoula, Mont.

Date of Notice of Appropriation of Groundwater: Not Applicable
Date well started: Jan. 9, 1964
Date completed: Jan. 15, 1964

Type of well: Drilled
Equipment Used: Rotary
(type: dug, driven, bored or drilled)

Water Use: Domestic [ ] Municipal [ ] Other [ ] Irrigation [ ]
Industrial [ ] Drainage [ ] Stock [ ]

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

<table>
<thead>
<tr>
<th>Depth of Drilled Hole</th>
<th>Man and Weight of Casing</th>
<th>From Well</th>
<th>To-foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 ft</td>
<td>24-in. casing</td>
<td>0</td>
<td>25</td>
</tr>
<tr>
<td>5 1/2 ft</td>
<td>4 1/2 - 0.011</td>
<td>0</td>
<td>25</td>
</tr>
<tr>
<td>42 ft</td>
<td>600 cemented 0 - 50 ft</td>
<td>250</td>
<td>515</td>
</tr>
<tr>
<td></td>
<td>250 - 500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>515 ft</td>
<td>600 - open hole</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 15 ft
Shut-in Pressure for flowing well: 15 psi
Pumping Water Level: 25 ft at 10 gal. per minute.

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.)

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
STATE WATER CONSERVATION BOARD

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)

Owner: James P. Wherry
Address: Winifred, Mont.
Driller: Munson & Co.
Address: Great Falls, Mont.

Date of Notice of Appropriation of Groundwater
Date well started: Jan. 2, 1965
Date completed: Jan. 9, 1965

Type of Well: Drilled
Equipment Used: Rotary

Water Use: Domestic [ ] Municipal [ ] Other [ ] Irrigation [ ]
Industrial [ ] Drainage [ ] Stock [ ]

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

State Water Level for non-flowing Wells: 11 feet.
Shut-in Pressure for Flowing Wells: 11 feet.
Pumping Water Level: 8 feet at 1 gal. per minute.
Discharge in gal. per min. of flowing well: 1/2 gal./min.

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

Driller’s License Number
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 County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. **Walter Arthur**, of **Sula**, GAL, (Name of Appropriator) (Address) (Town)

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

   ![Map Diagram]

   - 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.

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

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

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

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

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

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]

   Signature of Owner: **Walter Arthur**

   Date: **Dec 23 1963**

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Walter Apprrior, of Suffolk
   (Name of Appropriator) (Address) (Town)

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

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

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute): Plenty for Stock Water and Garden

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:

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

8. The depth of water table:

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

10. The estimated amount of groundwater withdrawn each year: 112,000 Gallons

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: Not Applicable

Signature of Owner: Date: Dec 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.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Water Arthur, of [Address]

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

2. The beneficial use on which the claim is based

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

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

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

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

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

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

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner.............................................. Address..............................................
Driller.............................................. Address..............................................
Date of Notice of appropriation of groundwater:LOGIN
Date well started........................................ Date completed............................

Type of well, drilled........................................ Equipment used........................................
(Chiselled, driven, bored or drilled)

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.

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

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

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Butcher, Milton</td>
<td>Water Milling</td>
<td>42662</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Butcher, Milton</td>
<td></td>
<td>39172</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Butcher, Milton</td>
<td></td>
<td>35579</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Butcher, Milton 2</td>
<td></td>
<td>45654</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Butcher, Milton</td>
<td></td>
<td>39752</td>
<td></td>
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<tr>
<td>17</td>
<td>Butcher, Milton</td>
<td>Water Milling</td>
<td>39758</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Butcher-Phillips Company</td>
<td>Water Milling</td>
<td>1112</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Butcher, Milton</td>
<td></td>
<td>15655</td>
<td></td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Milen Butcher
Address: Lihro, Montana
Driller: Scoot C. Ivan
Address: Lihro, Montana
Date Started: June 30, 1959
Date Completed: July 15, 1959
Location: Sec 12, T. 32 N., R. 80 W., Sec. 1

Type of Well: Drilled
Equipment Used: Cable Tool

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

Above Ground
Casing: 2 ft. to 40 ft. Type: i & S  Size: 4 1/2 ID
Casing: 40 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:

Shut-in Pressure, for flowing well: 40 lb/sq in. on: July 15, 1959

Pumping Water Level: feet at: gal. per min.

How tested:

Length of test:

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
Cemented in with 1/2 drame all steel resistant cement. Cased with rcd and cemented. Flow 3 - 3/4 gal. per min.
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0 To 2</td>
<td>Coal</td>
</tr>
<tr>
<td>From 2 To 20</td>
<td>Clayey sandstone</td>
</tr>
<tr>
<td>From 20 To 45</td>
<td>Water at 40'</td>
</tr>
<tr>
<td>From 45 To 52</td>
<td>Water at Top of Brine</td>
</tr>
<tr>
<td>From 52 To 58</td>
<td>Grey shale</td>
</tr>
<tr>
<td>From 58 To 60</td>
<td>Brown shale</td>
</tr>
<tr>
<td>From 60 To 72</td>
<td>White salt, pepper, sandy rock, water</td>
</tr>
<tr>
<td>From 72 To 75</td>
<td>Hard white silicate</td>
</tr>
<tr>
<td>From 75 To 115</td>
<td>Sandy rock, light colored</td>
</tr>
<tr>
<td>From 115 To 125</td>
<td>Light colored grey brown shale</td>
</tr>
<tr>
<td>From 125 To 135</td>
<td>Sandstone, water</td>
</tr>
<tr>
<td>From 135 To 175</td>
<td>Light colored shale</td>
</tr>
<tr>
<td>From 175 To 185</td>
<td>Dark brown shale, coal</td>
</tr>
<tr>
<td>From 185 To 187</td>
<td>Coal</td>
</tr>
<tr>
<td>From 187 To 192</td>
<td>Light grey sandy, water</td>
</tr>
<tr>
<td>From 192 To 198</td>
<td>Grey shale, sandy</td>
</tr>
<tr>
<td>From 198 To 210</td>
<td>Grey shale, spotted with coal</td>
</tr>
<tr>
<td>From 210 To 405</td>
<td>Layers of shale, black, brown, white</td>
</tr>
<tr>
<td>From 405 To 410</td>
<td>Green shaced, white rock</td>
</tr>
<tr>
<td>From 410 To 490</td>
<td>White &amp; grey sandstone, water at 412'-425' 4454465'</td>
</tr>
<tr>
<td>From 490 To 482</td>
<td>Shale</td>
</tr>
</tbody>
</table>

*State of Montana, Co. of Fergus*

**Filed July 20, 1958 at 2:30 p.m.**

_Doris L. Mann_  
County Clerk and Recorder
**Notice of Completion of Groundwater Appropriation by Means of Well**

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

---

**Owner:** Milton Butcher

**Address:** Choteau, Montana

**Driller:** George L. Singly

**Address:** Lewistown, Mont.

---

**Date of Notice of appropriation of groundwater:** None

**Date well started:** Feb. 24, 1970

**Date completed:** Feb. 27, 1970

---

**Type of well:** Drilled

**Equipment used:** Pumps (Dug, driven, bored or drilled)

**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.

---

### Log

<table>
<thead>
<tr>
<th>Depth (Feet)</th>
<th>Material</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>105 Coal</td>
<td></td>
</tr>
<tr>
<td>130</td>
<td>350 Sandstone</td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>356 Coal</td>
<td></td>
</tr>
<tr>
<td>160</td>
<td>357 Sandstone</td>
<td></td>
</tr>
<tr>
<td>170</td>
<td>358 Sandstone</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>359 Sandstone</td>
<td></td>
</tr>
<tr>
<td>210</td>
<td>360 Sandstone</td>
<td></td>
</tr>
<tr>
<td>220</td>
<td>361 Sandstone</td>
<td></td>
</tr>
<tr>
<td>230</td>
<td>362 Sandstone</td>
<td></td>
</tr>
</tbody>
</table>

---

**Static Water Level for non-flowing well:** None feet

**Shut-in Pressure for Flowing Well:** 30 psi

**Pumping Water Level:** None feet

**Discharge in gpm per min. of flowing well:** 0

**How Tested:** Measuring

**Length of Test:** 2 hrs

**Remarks:** (Gravel packing, cementing, packers, type of shutoff) Cemented with 8 pack cement

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

---

Show exact depth of bottom.

---

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

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

---

Driller's License Number: 19

Driller's Signature: [Signature]

---

[Diagram of well location and water level]
State of Montana,

County of Fergus.

Filed MAR 18 1970
at 2:00 o'clock P.M.

Wm. P. Fries
County Clerk and Recorder.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD
DEVELOPED AFTER JANUARY 1, 1963
(Under Chapter 237 Montana Session Laws, 1961, as amended)

Notice of Completion of Groundwater Appropriation by Means of Well
Owner: Milton Batcher, Address: Sulfolk, Montana
Driller: George C. Singley, Address: Lewistown, Montana
Date of Notice of appropriation of groundwater
Date well started: Dec. 10, 1969, Date completed: Dec. 19, 1969
Type of well: Drilled, Equipment used: Rotary
Water use: Domestic, Municipal, Stock, Irrigation

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.

Static Water Level for non-flowing well
Shut-In Pressure for flowing well
Pumping Water Level
Discharge in gal. per minute

Remarks: (Gravel packing, cementing, packing, type of shutoff)
Casing sealed with rubber packer and cement.

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, the fourth copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
State of Montana,
County of Fergus

Filed DECEMBER 29, 1969
at 12:00 o'clock noon M.

Mary Mattlin
County Clerk and Recorder
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. [Name of Appropriator] (Address) (Town) in [County of] [State of] have appropriated groundwater according to Montana laws in effect prior to January 1, 1962, as follows:

- The beneficial use on which the claim is based
- Date or approximate date of earliest beneficial use; and how continuous the use has been
- The amount of groundwater claimed
- If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
- The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
- The depth of water table
- So far as it may be available, the type, size and description of each well or other works for the withdrawal of groundwater
- The estimated amount of groundwater withdrawn each year
- The log of formations encountered in the drilling of each well if available
- 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

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

Each small square represents 10 acres.

Signature of [Name of Appropriator]
Date [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.
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Owner: Milton Butcher
Address: Fultontown, Montana

Driller: George O. Dingley
Address: Lewistown, Montana

Date of Notice of appropriation of groundwater: None

Date well started: April 15, 1967. Date completed: Sept. 7, 1967

### Surface and Bedrock

<table>
<thead>
<tr>
<th>Depth (feet)</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-275</td>
<td>Bear rock</td>
</tr>
<tr>
<td>275-345</td>
<td>Top Judith River sandstone, shale</td>
</tr>
<tr>
<td>345-365</td>
<td>Coal</td>
</tr>
<tr>
<td>365-369</td>
<td>Light blue sandstone</td>
</tr>
<tr>
<td>369-375</td>
<td>Brown grey blue sandstone</td>
</tr>
<tr>
<td>375-385</td>
<td>Varied shale, shaley</td>
</tr>
<tr>
<td>385-393</td>
<td>Sandstone</td>
</tr>
<tr>
<td>393-400</td>
<td>Shale, sandy, trace coal</td>
</tr>
<tr>
<td>400-420</td>
<td>Coal</td>
</tr>
<tr>
<td>420-424</td>
<td>Brown sandy shale</td>
</tr>
<tr>
<td>424-428</td>
<td>Hard silicate sandstone</td>
</tr>
<tr>
<td>428-432</td>
<td>Sandy shale</td>
</tr>
<tr>
<td>432-444</td>
<td>Hard sandrock</td>
</tr>
<tr>
<td>444-505</td>
<td>Varied shale, shaley</td>
</tr>
<tr>
<td>505-555</td>
<td>White hard sandstone</td>
</tr>
<tr>
<td>555-560</td>
<td>Hard sandy limestone</td>
</tr>
<tr>
<td>560-562</td>
<td>Varied shale, shaley</td>
</tr>
<tr>
<td>562-563</td>
<td>Hard sand rock</td>
</tr>
<tr>
<td>563-565</td>
<td>Grey, blue, brown sandstone</td>
</tr>
<tr>
<td>565-579</td>
<td>Hard sandstone</td>
</tr>
<tr>
<td>579-600</td>
<td>Hard sandrock</td>
</tr>
<tr>
<td>600-630</td>
<td>Sandstone</td>
</tr>
<tr>
<td>630-645</td>
<td>Hard silicate sandstone</td>
</tr>
<tr>
<td>645-655</td>
<td>Soft sandstone, water-bearing</td>
</tr>
<tr>
<td>655-665</td>
<td>Hard sandstone</td>
</tr>
<tr>
<td>665-675</td>
<td>Soft sandstone, water-bearing</td>
</tr>
<tr>
<td>675-685</td>
<td>Hard sandrock</td>
</tr>
<tr>
<td>685-692</td>
<td>Hard sandstone</td>
</tr>
<tr>
<td>692-700</td>
<td>Soft sandstone, brown ground</td>
</tr>
<tr>
<td>700-710</td>
<td>Streaky hard sandstone</td>
</tr>
<tr>
<td>710-720</td>
<td>Soft sandstone, brown ground</td>
</tr>
<tr>
<td>720-727</td>
<td>Hard sandrock</td>
</tr>
<tr>
<td>727-737</td>
<td>Varied shale</td>
</tr>
<tr>
<td>737-747</td>
<td>Black, grey, black sandstone</td>
</tr>
<tr>
<td>747-750</td>
<td>Grey hard sandstone</td>
</tr>
<tr>
<td>750-760</td>
<td>Soft grey sandstone</td>
</tr>
<tr>
<td>760-780</td>
<td>Hard sandrock</td>
</tr>
<tr>
<td>780-800</td>
<td>Soft sandstone, water-bearing</td>
</tr>
<tr>
<td>800-810</td>
<td>Hard sandrocks</td>
</tr>
<tr>
<td>810-815</td>
<td>Soft sandstone, water-bearing</td>
</tr>
<tr>
<td>815-835</td>
<td>Hard streaks of sandstone</td>
</tr>
<tr>
<td>835-935</td>
<td>Grey shale</td>
</tr>
<tr>
<td>935-1015</td>
<td>Hard streaks at 1000-1010</td>
</tr>
</tbody>
</table>

### Perforations

- Static Water Level for non-flowing wells: 1 foot
- Shut-In Pressure for Flowing Well: 0 feet
- Pumping Water Level: 180 feet
- Discharge in gal. per min. of flowing well: 0 gal. per min.
- Length of Test: 2 hr. & 24 hrs
- How Tested: Drilling and sampling
- Remarks: (Gravel packing, cementing, packers, type of shut-off)

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

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

| 1550 | 1552 | Hard rock  
| 1552 | 1599 | White salt- e. or sandstone  
| 1595 | 1697 | Hard caprock  
| 1697 | 1633 | Sandstone  
| 1632 | 1632 | Shale, Bentonite streaks
State of Montana,
County of Pondera.

NOV 6 1967
Filed at 3:15 P.M.

May Mathews
County Clerk and Recorder
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>Milton Bucher</td>
</tr>
<tr>
<td>Driller</td>
<td>George G. Amsley</td>
</tr>
<tr>
<td>Date Started</td>
<td>April 29, 1959</td>
</tr>
<tr>
<td>Date Completed</td>
<td>April 29, 1959</td>
</tr>
<tr>
<td>Location: Sec, T, R, &amp; Sec.</td>
<td>17, 26, 2, 34 sec. 8E 72W</td>
</tr>
</tbody>
</table>

Type of Well: Residential (Domestic)  
Equipment Used: Cable Tool

Water Use: Domestic [ ]  
Municipal [ ]  
Stock [ ]  
Irrigation [ ]  
Industrial [ ]  
Drainage [ ]  
Other: [ ]

Above Ground:
- Casing: 48 ft. to 72 ft.  
  - Type: S & S  
  - Size: 6 x 10

Casing: 72 ft. to 96 ft.  
- Type: S & S  
- Size: 8 x 10

Casing: 96 ft. to 120 ft.  
- Type:  
- Size: 

Perforated or Screwed:  
- Ft. to Ft.  
- Ft. to Ft.

Type of Screen or Perforations: 

Static Water Level for Non-Flooding Well: 35 feet

Shut-in Pressure for Flooding Well: 
- Ib/sq.in. on: (date)

Pumping Water Level: 15 feet at 15 gal. per min.

How Tested:  
- 3 HP

Length of Test: 

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

Tested with pump
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 2</td>
<td>Tampah</td>
</tr>
<tr>
<td>2 - 5</td>
<td>Clay gravel siltstones</td>
</tr>
<tr>
<td>5 - 30</td>
<td>Yellow clay</td>
</tr>
<tr>
<td>30 - 31</td>
<td>Siltstones</td>
</tr>
<tr>
<td>31 - 33</td>
<td>Yellow clay</td>
</tr>
<tr>
<td>33 - 39</td>
<td>Dolomite</td>
</tr>
<tr>
<td>39 - 40</td>
<td>Siltstones</td>
</tr>
<tr>
<td>40 - 42</td>
<td>Sandstone Water</td>
</tr>
<tr>
<td>42 - 55</td>
<td>Shale</td>
</tr>
<tr>
<td>55 - 70</td>
<td>Shale/Clayey Water</td>
</tr>
</tbody>
</table>

Log of Well
### MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

**WATER WELL LOG**

<table>
<thead>
<tr>
<th>County</th>
<th>Fergus</th>
</tr>
</thead>
</table>

**Owner:** Fearless Oil & Gas Company  
**Address:**  

**Driller:** U. L. Livingston  
**Address:** Winnett, Montana  

**Date Started:**  
**Date Completed:**  

**Location:** Sec. 28 T. 20 R. 20 1/4 sec. NW 5 8

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(Dug, driven, bored, or drilled)</td>
</tr>
<tr>
<td></td>
<td>(Churn drill, rotary, other)</td>
</tr>
</tbody>
</table>

- Water use:  
  - Domestic □  
  - Municipal □  
  - Stock □  
  - Irrigation □  
  - Industrial □  
  - Drainage □  
  - Other:  

- Casing:  
  - ft. to ft.  
  - Type:  
  - Size:  

- Perforated or Screened:  
  - ft. to ft.  
  - Type:  
  - Size:  

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

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

- Pumping water level:  
  - feet at:  
  - gals. per min.  

- How tested:  

- Length of test:  

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

(over)
Log of Horse Ranch Well No. 6

0--13 Surface soil
13--18 gravel
18--135 dark shale, hard black sandy lime streak
135--185 gray clayey sand
185--205 soft gray shale with streaks of coal and sand
205--210 dark clayey shale and coaly sand
210--220 soft gray, clayey sand (hard streaks)
220--230 soft gray and brown shale, streaks of medium sand
230--250 dark gray sand, medium soft, streaks of brown and gray sand
250--280 gray and brown muddy shale
280--295 firm gray shale, streaks of lime coal and sand
295--410 soft gray clayey shale and streaks of sand
410--440 various colored shales (firm)
440--490 soft gray clayey shale
490--530 various colored shale with streaks of soft gray shale
530--545 soft dark gray sand, some hard streaks
545--573 various colored shale with streaks of coal and sand
575--580 light gray sand, very fine
580--598 gray shale
598--603 soft fine sand
603--664 various colored shales with streaks of lime and sand
664--692 soft sand, hard lime streaks
692--693 hard shale
693--740 sand with streaks of shale coal and bentonite
740--750 sand with streaks of shale
750--773 various colored shales

Run 741 feet of 4" O. D. casing.
Casing from 0 to 500 feet new; and from 500 to 741 old pipe.
Halliburton cemented with 30 socks from 300 feet up.
Perforations from 455 to 475 feet; 525 to 545 feet; 565 to 610 feet; 670 to 741 feet.
Well flowing 6 gallons per minute.
State of Montana
County of

Filed: MAY 23, 1960

at 10:00 o'clock A.M.

May Rodham
County Clerk and Recorder

1115
COPY