County: Blaine

ERNEST O. LEE, DRILLING
1200 3rd Street Havre

WATER WELL LOG

Owner: Harvey March
Address: Zimbeln, Montana

Driller: Ernest O. Lee
Address: Havre, Montana

Date Started: June 22, 1961
Date Completed: July 2, 1961

Location: Sec. 5 T. 32 R. 19 NW

Type of well: Drilled
Equipment used: Churn Drill

Water use: Domestic □ Municipal □ Stock X Irrigation □

Industrial □ Municipal □ Drainage □ Other: __________________________

Casing: 0 ft. to 121 ft. Type: Screen-perforated Size: 6 5/8

Casing: __________________________ ft. Type: __________________________ Size: __________________________

Casing: __________________________ ft. Type: __________________________ Size: __________________________

Perforated or Screened: Ft. 10 to ft. 121 Ft. __________ to ft. __________

Type of screen or perforations: 1/4, A, A Perforations - X

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

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

Pumping water level: __________ feet at __________ gal. per min.

How tested: __________________________

Length of test: 1 hour

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

______________________________

______________________________

______________________________

______________________________

______________________________

______________________________

______________________________

______________________________

______________________________

______________________________
<table>
<thead>
<tr>
<th>Owner</th>
<th>Harvey Marsh</th>
<th>Address</th>
<th>Choteau, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>Ernest O. Lee</td>
<td>Address</td>
<td>Havre, Montana</td>
</tr>
<tr>
<td>Date Started</td>
<td>June 20, 1961</td>
<td>Date Completed</td>
<td>July 3, 1961</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 5 T. 32 R. 19 1/4 sec</td>
<td>Location: Sec. 5 T. 32 R. 19 1/4 sec</td>
<td></td>
</tr>
<tr>
<td>Type of well</td>
<td>Drilled</td>
<td>Equipment used: Churn Drill</td>
<td></td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic</td>
<td>Stock</td>
<td>Irrigation</td>
</tr>
<tr>
<td>Casing</td>
<td>0 ft. to 121 ft.</td>
<td>Size</td>
<td>6 5/8&quot;</td>
</tr>
<tr>
<td>Perforated</td>
<td>1/4 x 4&quot; Perforations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static Water</td>
<td>feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure</td>
<td>65 lb. sq. in.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumping water</td>
<td>85 feet at 10 gal. per min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>How tested</td>
<td>Pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of test</td>
<td>1 hour</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>Owner Harvey Marsh</td>
<td>Address Choteau, Montana</td>
</tr>
</tbody>
</table>

(over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>45</td>
</tr>
<tr>
<td>25</td>
<td>70</td>
</tr>
<tr>
<td>70</td>
<td>74</td>
</tr>
<tr>
<td>74</td>
<td>95</td>
</tr>
<tr>
<td>95</td>
<td>112</td>
</tr>
<tr>
<td>112</td>
<td>116</td>
</tr>
<tr>
<td>116</td>
<td>121</td>
</tr>
</tbody>
</table>

AUG 24 1933
COUNTY RECORDS

HI-LINE PUBLISHING CO., HAYRE. 
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>35 Gravel and Rock</td>
</tr>
<tr>
<td>35</td>
<td>70 Blue Clay</td>
</tr>
<tr>
<td>70</td>
<td>74 Gravel</td>
</tr>
<tr>
<td>74</td>
<td>75 Grey Shale</td>
</tr>
<tr>
<td>95</td>
<td>112 Blue Shale</td>
</tr>
<tr>
<td>112</td>
<td>116 Gravel and Blue Shale</td>
</tr>
<tr>
<td>116</td>
<td>121 Gravel</td>
</tr>
</tbody>
</table>

Log of Well
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

I, Walter Wisch, 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: House and livestock

2. Date or approximate date of earliest beneficial use, and how continuous the use has been: 1920

3. The amount of groundwater claimed (in miner's inches or gallons per minute): 7 gallons

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: Garden

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

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

7. The depth of water table: 48 feet

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:

9. The estimated amount of groundwater withdrawn each year:

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

11. 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 record

Signature of Owner: Walter Wisch
Date: July 31, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located. Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology; and quadruplicate for the Appropriator.
STATE OF MONTANA
County of Blaine

FILED FOR RECORD THIS 1DAY
OF 2, Aug. A.D. 1963
AT 10:45 O'CLOCK A.M.

COUNTY CLERK
Cyrus H. Johnson
COUNTY CLERK
Deputy
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1951)

John J. Gesell, Florence W. Gesell, J. T.
(Names of Appropriators)

County of, Blaine
State of Montana

have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1952, 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 formation 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:

County of Blaine
State of Montana

Date of Montana State Engineer

John J. Gesell
Date: December 30, 1952

having first been duly sworn, depose and say, that the premises hereof, the premises herein described, the premises mentioned in the foregoing declaration of vested groundwater rights and the person, whose name is hereof described, are true.

Signature of Owner

December 30, 1952

21/52
STATE OF MONTANA
County of Blaine

RECORD FOR RECORD THIS ___ DAY

December A.D. 19__

at 8 o'clock A.M.

__ Geo. M. Songer __ COUNCIL CLERK
Esther Shee DEPUTY
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: 

Driller: 

Date of Notice of Appropriation of Groundwater: 

Date well started: 

Date Completed: 

Type of well: 

Equipment Used: 

Water Use: Domestic □ Municipal □ Other □ 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 water rises in the well.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9&quot;</td>
<td>6-3/8&quot;</td>
<td>0</td>
<td>272</td>
<td></td>
</tr>
<tr>
<td>6-3/8&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6-3/8&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-1/2&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 80 feet.

Shut-in Pressure for Flowing Well: 

Pumping Water Level: 267 feet at 85 gal. per minute.

Discharge in gal. per min. of flowing well: 

How Tested: 

Length of Test: 

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).

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 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 Blaine

FILED FOR RECORD THIS 5TH DAY
OF October, A.D. 192-
AT 3:45 O'CLOCK M.

A.H. DEMPSEY
COUNTY CLERK

PER 2.00
DEPUTY
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: [Name]
Address: [Address]

Driller: [Name]
Address: [Address]

Date of Notice of appropriation of groundwater: [Date]
Date well started: [Date]
Date completed: [Date]

Type of well: Drilled
Equipment used: (Drill, 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.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 1/4</td>
<td>8 3/4 x 12</td>
<td>+1</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>8 1/8</td>
<td>8 5/8 x 12</td>
<td>0</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>6 7/8</td>
<td>6 1/2 x 12</td>
<td>20</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>6 5/8</td>
<td>6 1/2 x 12</td>
<td>20</td>
<td>N8</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well 103 feet.
Shut-in Pressure for Flowing Well.
Pumping Water Level: 235 feet at 103 gal. per minute.
Discharge in gal. per min. of flowing well
How Tested: [Method]
Length of Test: [Length]
Remarks: (Gravel packing, cementing, packing, type of shut-off).

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.

Driller's License Number
[Signature]

Driller's Signature

3/12/65
Driller's License Number
[Signature]

Driller's Signature

30578

31
STATE OF MONTANA
County of Blaine

FILED FOR RECORD THIS 15 DAY
OF September, A.D. 1965
AT 3:00 O’CLOCK P.M.

COUNTY CLERK

DEPUTY
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: Daniel J. Mitchell
Address: Church Attached
Date of Notice of appropriation of groundwater: July 1, 1965
Date completed: October 1, 1965

Type of well: Drilled  Chisel Drill
Equipment used: Chisel Drill (Chisel drill, rotary or other)
Water use: Domestic  Municipal  Stock  Irrigation
  Industrial  Drainage  Other

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td></td>
<td>0 22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>0 22</td>
<td>106</td>
<td>185</td>
</tr>
<tr>
<td>7/8</td>
<td></td>
<td>0 194</td>
<td>172</td>
<td>166 185</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well
Shut-in Pressure for flowing well
Pumping Water Level
Discharge in gal. per min. of flowing well
How Tested
Length of Test
Remarks: (Gravel packing, cementing, packers, type of cutoff)

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

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

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
Driller’s Signature
STATE OF MONTANA
County of Blaine

FILED FOR RECORD THIS 15th DAY
OF September, A.D. 1965
AT 2:05 P.M.

COUNTY CLERK

DEPUTY
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1951)

(Name of Appropriator)

County of: [County Name]
State of: [State Name]

have appropriated groundwater according to the Montana laws in effect prior to Jan. 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:

...Sec...T...R...

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

such small square represents 5 acres.

The depth of water table:

...Well...[Depth in feet]

...Well...[Depth in feet]

The estimated amount of groundwater withdrawn each year:

...Well...[Amount in gallons per year]

...Well...[Amount in gallons per year]

The log of formation encountered in the drilling of each well if available:

Signature of Owner:

Date: [Date]

...having first been duly sworn, depose... and say that... that... that... the contents of said foregoing notice and that the matters and things therein stated are true.
STATE OF MONTANA
County of Blaine
FILED FOR RECORD THIS 13TH DAY
OF DECEMBER, A. D. 1903
AT 40-35 PM, C.L. PR.
C. A. PARKER
COUNTY CLERK.
DEPUTY
Notice of Completion of Groundwater Appropriation Without Well
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: Spring 1944, Harvest 1951
Owner: William F. Owner
Address: Chico, Mont
Contractor (if any): Reservoir - Willis Morris
Address of Contractor: Chico, Mont
Date Started: Aug. 20, 1951, Date Completed: Aug. 30, 1951

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes. Include depth to water when applicable. Reservoir is in NW 1/4 SW 1/4 Sec. 15 - T 32 N, R 19 E
Natural Spring is in SW 1/4 SW 1/4 Sec. 22 - T 32 N, R 19 E

Quantity of water developed and used with explanation of method used to measure or estimate such amount. Use is intermittent estimate approximate lengths of periods of use. Reservoir has been used for stock water since spring of 1952 - maximum depth 25 feet. Natural Spring used for stock water during early spring and late fall since 1904. Water extends from 600 to 700 feet from source.
Signature of Owner: William F. Owner
Date: Dec. 9, 1963

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: [Name of Owner]
Address: """"

Driller: [Name of Driller]
Address: """

Date of Notice of Appropriation of Groundwater: 2-1-66

Date well started: 6-16-67

Type of well: Dug

Equipment Used: """

Water Use: Domestic

Top of ground (Elev. above sea level):

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>Size of Dug Hole</th>
<th>Size and Weight of Drilling</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 20 feet.

Shut-in Pressure for Flowing Well: 

Pumping Water Level: 226 feet at 14 gal. per minute.

Discharge in gal. per min. of flowing well: 

How Tested: Basket Length of Test: 2 ft.

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.) The well

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

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.

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.

Driller's License Number: 31

Driller's Signature: [Signature]

File No. [File Number]
STATE OF MONTANA
County of Blaine

Filed for record this 11th day of July, A.D. 19__.

Deputy

[Signature]

[Stamp]
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: William Brown
Address: Chico

Driller: Ethel Walters
Address: 

Date of Notice of Appropriation of Groundwater: 11-29-63
Date Completed: 11-30-63

Type of well: Drilled
Equipment Used: Chur, drill, rotary or other

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

63. 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.

| Depth of | Size and | From | To | PERFORATIONS |
|__________|_________|_____|____|_____________|
| Define Hole | Defect | (Feet) | (Feet) | Depth (Feet) |
| 8 5/8 | 8 5/8 | 50 | 0 | 0 |
| 8 5/8 | 50 | 20 | 21 1/2 | 21 1/2 |
| 1 1/2 | 65 3/4 | 130 | 2 | 2 |
| 7 1/2 | 65 3/4 | 130 | 0 | 59 1/2 |

Static Water Level for non-flowing Well: 8 feet.
Shut-in Pressure for Flowing Well: 
Pumping Water Level: 34 feet at 50 gal. per minute.
Discharge in gal. per min. of flowing well: 

6. How Tested: [ ] Length of Test: 2 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)

5" casing left in well until gravel set.
24th. Shallowest of water 25 ft. and measuring as well was installed.

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 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. William F. Smith
   of Helena
   (Name of Appropriator) (Address)

   County of Blaine
   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: HOUSE WELL #1
   AND STOCK WELL #2

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   #1 - 1950 - CONTINUOUS
   #2 - 1914 - CONTINUOUS

4. The amount of groundwater claimed (in miner's inches or gallons per minute):
   #1 - 2000 GALLONS PER MONTH
   #2 - WELL WATER 5000 GALLONS PER MONTH

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:
   #1 - LAWN & GARDEN
   #2 - NOT

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   #1 - PRESSURE PUMP
   #2 - CYLINDER IN WELL - 4" X 14'

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   #1 - MAY 1950
   #2 - SEPT. 1951

8. The depth of water table:
   #1 - 10 FT
   #2 - 8 FT

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
   #1 - DUG WELL - 10 FT Casing - 70 FT DEEP
   #2 - 20 FT Casing - 20 FT DEEP

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: William F. Smith
Date: 12-9-63

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.
Form No. 18

T. 32 R. 19

Country

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

Water Well Log

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Driller</th>
<th>Address</th>
<th>Date Started</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maurice Powell</td>
<td>Chinook, Mont</td>
<td>Same</td>
<td></td>
<td>Sept 15-1961</td>
<td>Sept 25-1961</td>
</tr>
</tbody>
</table>

Location: Sec. 23 T. 32 R. 19 4 sec. SW^SW

Type of well: Drilled

Equipment used: Churn

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

Casing: 2 ft. to 20 ft. Type iron Size 6 1/2

Casing: 20 ft. to 100 ft. Type Size 6

Casing: 100 ft. to 146 ft. Type Size 5

Perforated or screened: Ft. 136 to ft. 146. Ft. to ft. 1/4 holes

Static water level, for non-flowing well: 125 ft feet.

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

Pumping water level 140 ft feet at 1 1/2 gal. per min.

How tested: Pumped with cylinder pump

Length of test: 1 hr. pumped 20 gal

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

Packer set at 120 ft - 15 cement above packer

Packer set at 20 ft - Hole filled with cement outside 6 1/2" casing

(over)
Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 25</td>
<td>unconsolidated surface material</td>
</tr>
<tr>
<td>25 - 50</td>
<td>Brown sandrock</td>
</tr>
<tr>
<td>50 - 55</td>
<td>&quot; &quot; (hard)</td>
</tr>
<tr>
<td>55 - 100</td>
<td>Gray shale</td>
</tr>
<tr>
<td>100 - 134</td>
<td>light sand</td>
</tr>
<tr>
<td>134 - 135</td>
<td>hard rock</td>
</tr>
<tr>
<td>135 - 145</td>
<td>Gray sand</td>
</tr>
<tr>
<td>145 - 146</td>
<td>Gray shale</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1941)

Date of Appropriation of Groundwater: 1947

Owner: Carolyn Vogt
Address: Chinook, Mont.

Contractor (if any)
Address of Contractor

Date Started: June 1, 1947
Date Completed: June 1, 1947

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

PIT SPRINGS

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.

SUMMER MONTH

PIT SIZE: 30 X 75 X 5' DEEP

Signature of Owner: Carolyn Vogt
Date: June 30, 1947

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.
STATE OF MONTANA
County of Blaine

FILED FOR RECORD THIS 20 DAY
OF
A.D. 1962
AT 8:00 O'Clock A.M.

[Signature]

[Signature]

[Seal]

[Seal]
MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>[Name]</td>
</tr>
<tr>
<td>Address</td>
<td>[Address]</td>
</tr>
<tr>
<td>Driller</td>
<td>[Name]</td>
</tr>
<tr>
<td>Address</td>
<td>[Address]</td>
</tr>
<tr>
<td>Date Started</td>
<td>[Date]</td>
</tr>
<tr>
<td>Date Completed</td>
<td>[Date]</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 26, T. 32, R. 19, 1/2 sec. 26, 32.</td>
</tr>
</tbody>
</table>

| Type of well                 | [Type]      |
| Equipment used               | [Equipment] |

<table>
<thead>
<tr>
<th>Water use</th>
<th>[Selection]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>[Check]</td>
</tr>
<tr>
<td>Municipal</td>
<td>[Check]</td>
</tr>
<tr>
<td>Stock</td>
<td>[Check]</td>
</tr>
<tr>
<td>Irrigation</td>
<td>[Check]</td>
</tr>
<tr>
<td>Industrial</td>
<td>[Check]</td>
</tr>
<tr>
<td>Drainage</td>
<td>[Check]</td>
</tr>
<tr>
<td>Other</td>
<td>[Check]</td>
</tr>
</tbody>
</table>

| Casing: ft. to ft. Type Size | [Details]   |
| Casing: ft. to ft. Type Size | [Details]   |
| Casing: ft. to ft. Type Size | [Details]   |

| Perforated or Screened: Ft. to Ft. | [Details] |

| Type of screen or perforations | [Details] |

| Static Water level, for non-flowing well: | [Depth] feet |
| Shut-in pressure, for flowing well: | [Pressure] lb./sq. in. on: [Date] |

| Pumping water level: | [Depth] feet at | [Rate] gal. per min. |

| How tested: | [Method] |

| Length of test: | [Duration] |

| Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off) | [Details] |

(over)
MONTANA BUREAU OF MINES AND GEOLOGY
Butto, Montana

WATER WELL LOG

Owner: MAURICE POWELL    Address: CHICOKEE, MONT
Driller: R.C. SIMPSON    Address: MALTA, MONT

Date Started: JUNE 4, 1957    Date Completed: JULY 10, 1957

Location: Sec. 6, T. 38, R. 19, W. 2, M. & M.

Type of well: DRILLED
Equipment used: ROTARY

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

Casing: [ ] ft. to [ ] ft. Type [ ] Size [ ]
Casing: [ ] ft. to [ ] ft. Type [ ] Size [ ]
Casing: [ ] ft. to [ ] ft. Type [ ] Size [ ]
Perforated or Screened: [ ] to [ ] Ft. [ ] to [ ] Ft.
Type of screen or perforations: [ ]
Static Water level, for non-flowing well: [ ] FEET
Shut-in pressure, for flowing well: [ ] lb/sq. in. on: [ ] (date)
Pumping water level: [ ] FEET at: [ ] gal. per min.

How tested: [ ]

Length of test: [ ]

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

(Gravel packing, cementing, packers, type of shut-off, depth of shut-off) [ ]

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>SAND</td>
</tr>
<tr>
<td>1 – 15</td>
<td>GILTON SHALE</td>
</tr>
<tr>
<td>16</td>
<td></td>
</tr>
<tr>
<td>17 – 94</td>
<td>LIME SODALITE</td>
</tr>
<tr>
<td>95 – 10</td>
<td>SAND</td>
</tr>
<tr>
<td>10 – 16</td>
<td>SAND</td>
</tr>
<tr>
<td>17 – 28</td>
<td>SILT SHALE</td>
</tr>
<tr>
<td>18 – 18 1/2</td>
<td>ROCK</td>
</tr>
<tr>
<td>29 – 70</td>
<td>SAND SANDY SHALE</td>
</tr>
<tr>
<td>71 – 114</td>
<td>ROCK</td>
</tr>
<tr>
<td>115 – 120</td>
<td>SAND</td>
</tr>
<tr>
<td>121 – 209</td>
<td>SAND GREY SHALE</td>
</tr>
<tr>
<td>210 – 250</td>
<td>LIME SHALE</td>
</tr>
<tr>
<td>251 – 280</td>
<td>LIME SHALE</td>
</tr>
<tr>
<td>281 – 287</td>
<td>ROCK</td>
</tr>
<tr>
<td>288 – 297</td>
<td>LIME SHALE</td>
</tr>
<tr>
<td>298 – 305</td>
<td>LIME SHALE</td>
</tr>
<tr>
<td>306 – 312</td>
<td>LIME SHALE</td>
</tr>
<tr>
<td>313 – 317</td>
<td>SAND</td>
</tr>
<tr>
<td>318 – 326</td>
<td>SAND</td>
</tr>
<tr>
<td>327 – 350</td>
<td>SAND STONE</td>
</tr>
<tr>
<td>351 – 400</td>
<td>GREY SANDSTONE</td>
</tr>
<tr>
<td>401 – 420</td>
<td>GREY SANDSTONE</td>
</tr>
<tr>
<td>421 – 450</td>
<td>GREY SHALE</td>
</tr>
<tr>
<td>451 – 474</td>
<td>GREY SHALE</td>
</tr>
<tr>
<td>475 – 500</td>
<td>GREY SHALE</td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td>15</td>
<td>41</td>
</tr>
<tr>
<td>41</td>
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<td>11</td>
</tr>
<tr>
<td>11</td>
<td>16</td>
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<tr>
<td>16</td>
<td>70 1/2</td>
</tr>
<tr>
<td>70 1/2</td>
<td>114</td>
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<tr>
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<tr>
<td>710</td>
<td>720</td>
</tr>
<tr>
<td>720</td>
<td>720</td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moe</td>
<td>Chirichmont</td>
<td>R. C. Simpson</td>
<td>Malta, Montana</td>
</tr>
</tbody>
</table>

Date Started: Feb. 28, 1958  Date Completed: April 19, 1958

Location: Sec. 15     T. 81   R. 51  1/4

Type of well: **Drilled**

Equipment used: *Churn drill* (Churn drill, rotary, other)

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

Industrial [ ]  Drainage [ ]  Other: [ ]

Casing: 0 ft. to 198 ft.  Type: screen joint, 6 inch, 4 1/2 ft. per

Casing: 198 ft. to 310 ft.  Type: screen joint, 4 1/2 ft. per

Casing: 310 ft. to 380 ft.  Type: screen joint, 4 ft. per

Perforated or Screened: Ft. 266 to ft. 298

Type of screen or perforations: drilled 1/4" holes

Static Water level, for non-flowing well: 6

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

Pumping water level: 36 feet at 18 gal. per min.

How tested:  [ ] Banister

Length of test: 1 1/2 hours

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

Packers at 26 - 26 5 and at 18 5 - 19 5

(over)
**Log of Well**

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>35</td>
</tr>
<tr>
<td>35</td>
<td>85</td>
</tr>
<tr>
<td>85</td>
<td>100</td>
</tr>
<tr>
<td>100</td>
<td>105</td>
</tr>
<tr>
<td>105</td>
<td>155</td>
</tr>
<tr>
<td>155</td>
<td>160</td>
</tr>
<tr>
<td>160</td>
<td>179</td>
</tr>
<tr>
<td>179</td>
<td>189</td>
</tr>
<tr>
<td>189</td>
<td>194</td>
</tr>
<tr>
<td>194</td>
<td>208</td>
</tr>
<tr>
<td>208</td>
<td>220</td>
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<tr>
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<tr>
<td>245</td>
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</tr>
<tr>
<td>270</td>
<td>295</td>
</tr>
<tr>
<td>295</td>
<td>300</td>
</tr>
<tr>
<td>300</td>
<td>310</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Harry O Conner
Address: Chinook, Montana

Driller: Simpson Drilling Co.
Address: Malta, Montana

Date of Notice of appropriation of ground water: Nov. 6, 1962
Date well started: Nov. 6, 1962
Date completed: Nov. 12, 1962

Type of well: Drilled
Equipment used: Sibley Tools
(dug, driven, bored or churn, drill, rotary 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.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Cutting</th>
<th>Feet</th>
<th>Preparations</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>6&quot; 191 lbs</td>
<td>0</td>
<td>3/16 66 76</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

Shut-in Pressure for Flowing Well

Pumping Water Level at

Discharge in gal. per min. of flowing well

How Tested

Length of Test

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

Driller's Signature

Driller's License Number

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 Appropriate.
No. 248334

STATE OF MONTANA
County of Blaine

FILED FOR RECORD THIS 6 DAY OF March A.D. 1983
AS 10.00 O'CLOCK A.M.
Cora L. Musgrove

COUNTY CLERK

DEPUTY
Notice of Completion of Groundwater Appropriation by Means of Well

(Made Chapter 237, Montana Session Laws, 1961)

Own. Name

Driller Name

Date of Notice of Appropriation of Groundwater

5-15-63

Date Well Started

5-15-63

Date Completed

6-5-63

Type of Well

Drilled

Equipment Used

Chimney

Water Use

Domestic [X] Municipal [ ] Other [ ] Irrigation [ ]

Industrial [ ] Drainage [ ] Stock [ ]

Describe strata met with in drilling, such as soil, clay, sand, gravel or rock, 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>Size of Drilled Hole</th>
<th>Size and Wall of Casing</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6&quot; x 13&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>300' static test (gun)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>300' chimney</td>
<td></td>
</tr>
<tr>
<td></td>
<td>360' chimney</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 110 feet.

Shut-in Pressure for Flowing Well:

Pumping Water Level: 2.75 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well:

Length of Test: 2.75 hours.

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). Report packed.

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

Show exact depth of bottom.

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

[Signature]

Driller's License Number

Driller's Signature
STATE OF MONTANA
County of Blaine

FILED FOR RECORD THIS 21 DAY
OF ___________ A. D. 19__
AT __________ O'CLOCK P. M.

[Signatures]
COUNTY DEPUTY

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

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

Donald D. Starcher of (Name of Appropriator)
Chinook (Address)
Blaine County, Mont. (Town)

I, Donald D. Starcher, of Chinook, Blaine County, Mont., do hereby declare and State Engineer receiv'd JUN 24 1963

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: Livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1920-1925

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 5 gals. per min.

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

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

Electric Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1920 - 1925

8. The depth of water table: 3' 6" f. 20' f.

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:

Hoff Dam Bl. 136

10. The estimated amount of groundwater withdrawn each year: 6000 - 3000

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

Shale - 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: 6-21-63

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 Blaine

FILED FOR RECORD THIS DAY OF A. D. 1962
AT O'CLOCK A.M.

C. R. McVoy
COUNTY CLERK

CASTLE TAFT
DEPUTY
**MONTANA BUREAU OF MINES AND GEOLOGY**  
**Butte, Montana**

**WATER WELL LOG**

<table>
<thead>
<tr>
<th>Owner: AUGUST WILKIN</th>
<th>Address: MONTANA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller: SIMPSON DRILLING CO.</td>
<td>Address: HAVEN, MONTANA</td>
</tr>
<tr>
<td>Date Started: 12/4/41</td>
<td>Date Completed: 12/18/41</td>
</tr>
<tr>
<td>Location: Sec. 32, T. 32, R. 19</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well:</th>
<th>Equipment used:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(drilled, bored, or drilled)</td>
<td>(cable, airlift, rotary, others)</td>
</tr>
</tbody>
</table>

| Water use: | Domestic | Municipal | Stock | Irrigation |
|  |  |  |  |  |

| Casing: | ft. to ft. | Type | Size |
|  |  |  |  |

| Perforated or Screened: | Ft. to Ft. | Ft. to Ft. |
|  |  |  |

| Type of screen or perforations: | 3/4 |

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

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

| Pumping water level: | feet at | gal. per min. |
|  |  |  |

| How tested: |  |
|  |  |

| Length of test: | 2 hours |
|  |  |

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

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 1</td>
<td>top soil</td>
</tr>
<tr>
<td>1 - 7</td>
<td>brown sand</td>
</tr>
<tr>
<td>7 - 18</td>
<td>gravel and clay</td>
</tr>
<tr>
<td>18 - 30</td>
<td>blue shale</td>
</tr>
<tr>
<td>30 - 45</td>
<td>grey shale</td>
</tr>
<tr>
<td>45 - 65</td>
<td>dark grey shale</td>
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<tr>
<td>65 - 70</td>
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<td>70 - 75</td>
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<td>78 - 85</td>
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<td>85 - 90</td>
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<tr>
<td>158 - 168</td>
<td>grey sand</td>
</tr>
<tr>
<td>168 - 245</td>
<td>sandstone and water</td>
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<tr>
<td>245 - 254</td>
<td>water</td>
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</tbody>
</table>

Log of Well
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. TEXACO INC. of 1236 No. 28th St., Billings
   (Name of Appropriator) (Address) (Town)
   County of Yellowstone, 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: Injected fluid into Suitla formation in a secondary recovery

   3. Project approximate date of earliest beneficial use: and how continuous the use has been. Beginning 5-23-61 and continuously thereafter to the present.

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): Approx. 300 GPM for enough to conduct the project.

   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: Downhole pump operated by sucker rods and surface equipment. State 40' #2 located SW1/4 SE1/4 Sec. 36, T32N, R19E.

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Commenced 5-8-61, completed 5-15-61.

   8. The depth of water table: 2885'.

   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: In 1951 this well was drilled to a depth of 1371'. KB. All horizons down to 3279' were cased off and the well was produced through open hole as an oil well until April, 1961, when a bridge plug was set at 2985' and the interval 2890-2955' was perforated for water supply.

   10. The estimated amount of groundwater withdrawn each year: 3,580,000 bbls.

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

   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 School of Mines and Quadruplicate for the Appropriator.

4970
STATE OF MONTANA
County of Blaine

FILED FOR RECORD THIS ___ DAY
OF ___________, A. D. 1963
AT ___ O'CLOCK ___ M.

[Signature]

[Signature]

[Signature]

Page 2
## Groundwater Index

**County:** BLAIRE  
**Twp:** 30 NORTH  
**Rge.:** 20 EAST

<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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<td>GW-2</td>
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<td>38</td>
<td>WARBURTON, WILLARD</td>
<td>WELL LOG</td>
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<td>WARBURTON, WALLACE</td>
<td></td>
<td>245815</td>
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</tbody>
</table>
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1951)

County of __________________________ State of Montana
Appropriator: ________________________ Address: ________________________

have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1952, 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:

   1-7-53

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 on 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 formation 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: ____________________________

I, the above-named, having first been duly sworn, depose and say that I am of lawful age and ______... the appropriator... and claimant... of the order and water right mentioned in the foregoing declaration of vested groundwater rights and the person... whose name... subscribed thereto, as the appropriator... and claimant..., that he... know... the contents of said foregoing notice and that the matters and things therein stated are true.
STATE OF MONTANA
County of Blaine

Filed for record this 31st day of December, A.D. 19___ at 8:15 o'clock A.M.

[Signatures]

County Clerk
Deputy
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

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

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

Owner (Print name and address for Administrator's Use)

Date well started

Completed

Type of well

Equipment used

Water Use: Domestic □ Municipal □ Stock □ Drainage □ Other □ Garden/Lawn □

Describe

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

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Depth of Depth</th>
<th>Top of Ground</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Foot]</td>
<td>[Foot]</td>
<td>[Foot]</td>
</tr>
</tbody>
</table>

Static water level .... 10.0 ft.
Pumping water level .... 5.0 ft.
at 50 gallons per minute,
measured 5 minutes after pumping
begun.

*Measured from ground level.
Well developed by
Power...5.0 HP
Remarks: (Gravel packing, cementing,
packers, type of shut-off) [Details]

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

Driller's Signature
Driller's Address

LICENSE NO. 31

56.290
STATE OF MONTANA
County of Blaine

Filed for record this 30th day of January, A. D. 1922

Recorded

County Clerk

Deputy
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: Otto Freund
Address: Chinook

Driller: Warren D. Witters
Address: Chinook

Date of Notice of Appropriation of Groundwater: 10-15-62

Date well started: 10-15-62

Date completed: 10-18-62

Type of well: Drilled

Equipment Used: Churn drill

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.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weights of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;6 × 10&quot;</td>
<td>9&quot;, 12&quot;, 24&quot;</td>
<td>0 0 0</td>
<td>6 6 6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 1/2 × 11&quot;</td>
<td>58</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 0 feet.

Shut-in Pressure for Flowing Well: 150 feet at 32 gal. per minute.

Pumping Water Level: 190 feet.

Discharge in gal, per min. of flowing well: 20.

How Tested: Static

Length of Test: 15 days.

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.

Driller's License Number: [Redacted]
Driller's Signature: [Redacted]

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.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

[Form fields filled out with text]

1. [Name of Appropriate] of [Address] in the County of [Name] in the 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 [Description of use]

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) [12 g.p.m.]

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 [Acreage and Description]

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater [Drilled & Completed in 1938]

8. The depth of water table [Artesian]

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 [165 Feet, 6in. Clay]

10. The estimated amount of groundwater withdrawn each year [369,000 gal]

11. The log of formations encountered in the drilling of each well if available [Shale - Sand - Clay]

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] 27-63

These papers 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.

Directed 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 Blaine

FILED FOR RECORD THIS 27 DAY
OF December, A. D. 1963
AT 11:42 O'CLOCK A. M.

Cari L. IIaugar
COUNTY CLERK

DEPUTY
<table>
<thead>
<tr>
<th>Form No. 18</th>
<th></th>
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<tr>
<td>T. 32 R. 20</td>
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</tr>
<tr>
<td>County: Blaine</td>
<td></td>
</tr>
</tbody>
</table>

**WATER WELL LOG**

**STATE ENGINEER**

**MONTANA BUREAU OF MINES AND GEOLOGY**

**Butte, Montana**

**Owner:** J. F. Butler  
**Address:** Gallatin, Montana

**Driller:** H. D. Pattee  
**Address:** Butte, Montana

**Date Started:** 7/4/63  
**Date Completed:** 8/4/63

**Location:** Sec. 2, T. 32 R. 20 sec. 504 NE

**Type of Well:**
- [ ] Domestic  
- [ ] Municipal  
- [ ] Stock  
- [ ] Irrigation  
- [ ] Industrial  
- [ ] Drainage  
- [ ] Other

**Equipment Used:**
- [ ] Gravel, rock, or other

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

**Casing:**
- [ ] 0 ft. to 10 ft.  
- [ ] Type  
- [ ] Size

**Perforated or Screened:**
- [ ] 0 ft. to 10 ft.  
- [ ] Type  
- [ ] Size

**Static Water Level, for non-flowing well:** __________ feet.

**Shut-in Pressure, for flowing well:** __________ lb./sq. in. on: __________

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

**How Tested:** __________

**Length of Test:** __________

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

(Over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>20</td>
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<td>40</td>
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<td>240</td>
<td>265</td>
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<td>265</td>
<td>290</td>
</tr>
</tbody>
</table>

*Filed Aug 30, 1981*
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1951)

Lloyd Chambers, of... Town
County of. State of...

have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1952, as follows:

1. Name of Appropriator (Address) (Town)

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

3. Date or approximate date of earliest beneficial use, and if continuous the use has been...

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

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

7. The depth of water table...

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...

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

10. The log of formation encountered in the drilling of each well if available...

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

...Continued...

...Continued...

...Continued...

Signature of Owner

...Continued...

having first been duly sworn, do... and say...

...Continued...
STATE OF MONTANA
County of Blaine

FILED FOR RECORD THIS 31 DAY
OF DECEMBER A.D. 1963
AT 11:30 A.M.

Cora R. Burgum
COUNTY CLERK

[Signature]

25-2/10

25210?
Notice of Completion of Groundwater Appropriation by Means of Well DEVELOPED AFTER JANUARY 1, 1962 (Under Chapter 237, Montana Session Laws, 1961)

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

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

<table>
<thead>
<tr>
<th>Date of Notice of appropriation of groundwater</th>
<th>12-10-71</th>
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</thead>
<tbody>
<tr>
<td>Date well started</td>
<td>2/14/72</td>
</tr>
<tr>
<td>Date completed</td>
<td>2/14/72</td>
</tr>
<tr>
<td>Type of well</td>
<td>( \text{Devin' drill} )</td>
</tr>
<tr>
<td>Equipment used</td>
<td>( \text{Churn drill, rotary or other} )</td>
</tr>
<tr>
<td>Water use</td>
<td>( \text{Domestic} )</td>
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<tr>
<td>Groundwater Use</td>
<td>( \text{Municipal} )</td>
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<tr>
<td></td>
<td>( \text{Stock} )</td>
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<td>( \text{Industrial} )</td>
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<td>( \text{Drainage} )</td>
</tr>
<tr>
<td></td>
<td>( \text{Other} )</td>
</tr>
</tbody>
</table>

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.

### PERFORATIONS

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Foot)</th>
<th>To (Foot)</th>
<th>Kind of Drilling</th>
<th>From (Foot)</th>
<th>To (Foot)</th>
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<tr>
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<td>6 /8' x 14</td>
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<td>13</td>
<td>( \text{Devin' drill} )</td>
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<td>130</td>
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<tr>
<td>5 /8' x 14</td>
<td>6 /8' x 14</td>
<td>6</td>
<td>130</td>
<td>( \text{Devin' drill} )</td>
<td>110</td>
<td>130</td>
</tr>
<tr>
<td>6 /8' x 14</td>
<td>6 /8' x 14</td>
<td>6</td>
<td>130</td>
<td>( \text{Devin' drill} )</td>
<td>110</td>
<td>130</td>
</tr>
</tbody>
</table>

- **Static Water Level for non-flowing well**
  - 4 feet

**Shut-in Pressure for Flowing Well**

- **Pumping Water Level**
  - 130 feet
  - Flow rate at 6 gallons per minute

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

**How Tested**

**Length of Test**

**Remarks**

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

**USE**

(If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data)

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

**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**

**Driller's Signature**

---

**Date of Notice of appropriation of groundwater**

12-10-71

**Date well started**

2/14/72

**Date completed**

2/14/72

**Type of well**

\( \text{Devin' drill} \)

**Equipment used**

\( \text{Churn drill, rotary or other} \)

**Water use**

\( \text{Domestic} \)

\( \text{Municipal} \)

\( \text{Stock} \)

\( \text{Irrigation} \)

\( \text{Industrial} \)

\( \text{Drainage} \)

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

Owner: D. Parcell
Address: Choteau
Driller: J. Wilfley
Address: 11

Date of Notice of appropriation of groundwater: 12-10-71
Date well started: 2/1/72 Date completed: 2/12/72

Type of well: Dug, Driven, bored or drilled (Churn drill, rotary or other)

Water use: Domestic Municipal Stock for 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. Shew depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

<table>
<thead>
<tr>
<th>Depth of Drilled Date</th>
<th>Hole and Weight of Cables</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERIODIZATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5% 6.5% 7110 0 130</td>
<td>H 162 110 130 130</td>
<td>6.7 6.7 130 130</td>
<td>6.7 6.7 130 130</td>
<td>6.7 6.7 130 130</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well 130 feet.
Shut-in Pressure for flowing well. 8 gal per minute.
Discharge in gal. per min. of flowing well 8 gal per minute.

How Tested: Daily
Length of Test: 130
Remarks: (Gravel packing, cementing, packers, type of screen)

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 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 49,789
Driller's Signature

Scale 1/2 inch = 10 feet
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Show exact depth of bottom.
<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form No. 18</td>
<td>T. 12, R. 20, County Blaine</td>
</tr>
<tr>
<td>Montana Bureau of Mines and Geology</td>
<td>Butte, Montana</td>
</tr>
<tr>
<td>Water Well Log</td>
<td></td>
</tr>
<tr>
<td>Owner</td>
<td>Carl Bosch</td>
</tr>
<tr>
<td>Address</td>
<td>Cochrane</td>
</tr>
<tr>
<td>Driller</td>
<td>Walter Walton</td>
</tr>
<tr>
<td>Address</td>
<td>Cochrane</td>
</tr>
<tr>
<td>Date Started</td>
<td>9/25/61</td>
</tr>
<tr>
<td>Date Completed</td>
<td>9/27/61</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 3 T. 32 R. 20, sec. W1/2N1/4</td>
</tr>
<tr>
<td>Type of well</td>
<td>Drilled</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Churn drill</td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic</td>
</tr>
<tr>
<td></td>
<td>Stock</td>
</tr>
<tr>
<td>Casing</td>
<td>0 ft. to 40 ft.</td>
</tr>
<tr>
<td>Casing</td>
<td>ft. to ft.</td>
</tr>
<tr>
<td>Casing</td>
<td>ft. to ft.</td>
</tr>
<tr>
<td>Perforated or screened</td>
<td>Ft. to Ft.</td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td></td>
</tr>
<tr>
<td>Static water level, for non-flowing well</td>
<td>10 ft.</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well</td>
<td></td>
</tr>
<tr>
<td>Pumping water level</td>
<td>30 feet at 15 gal. per min.</td>
</tr>
<tr>
<td>How tested</td>
<td>Failed</td>
</tr>
<tr>
<td>Length of test</td>
<td>1 1/2 hrs.</td>
</tr>
<tr>
<td>Remarks</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
</tr>
</tbody>
</table>

(over)