STATE OF MONTANA
County of Valley.

Filed for record.

AUG 29 1963

10:00 C.M.
County Recorder

Deed Registry
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Floyd Scott  Address: Glasgow
Driller: Carl Pola  Address: Saco

Date Started: 2/19/60  Date Completed: 2/23/60

Location: Sec 3  T. 28  R. 39  W. 1/4  sec. SENE-North 8K RR

Type of well: Drilled  Equipment used: Churn

Water use: Domestic  Stock  Irrigation
Industrial  Municipal  Drainage  Other

Casing: Top ft. to 96 ft. Type  Size

Perforated or Screened: Ft. to Ft. Type to Type

Static Water level, for non-flowing well: 19 feet.

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

Pumping water level: 25 feet at 16 gal. per min.

How tested: bailng

Length of test: 1/2 hr.

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

State Engineer
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 3</td>
<td></td>
</tr>
<tr>
<td>5 - 10</td>
<td></td>
</tr>
<tr>
<td>10 - 13</td>
<td></td>
</tr>
<tr>
<td>13 - 15</td>
<td></td>
</tr>
<tr>
<td>15 - 17</td>
<td></td>
</tr>
</tbody>
</table>

**Log of Well**
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 3</td>
<td>Gravel- ESP Hole</td>
</tr>
<tr>
<td>3 - 15</td>
<td>Sand Clays</td>
</tr>
<tr>
<td>15 - 70</td>
<td>Soft Blue Clay</td>
</tr>
<tr>
<td>70 - 73</td>
<td>Sand</td>
</tr>
<tr>
<td>73 - 76</td>
<td>Course Sand</td>
</tr>
<tr>
<td>76 - 126</td>
<td>Course Sand 13</td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drake</td>
<td>Chis</td>
</tr>
</tbody>
</table>

Owner: Floyd Scott  
Address: Glasgow

Driller: Carl Palm  
Address: Sec

Date Started: 7/8  
Date Completed: 7/14/64

Location: Sec 3  
T: 38  
R: 9  
sec: 16

Type of well: Drake  
Equipment used: Chis

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

Casing: Top to 8.4 ft  
Type: 6.25"  
Size: 4 ½ ID

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: 32

Shut-in pressure, for flowing well:

Pumping water level: 40 feet at 20 gal. per min.

How tested: Basing

Length of test: 2 hr.

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>6 7</td>
<td>Yellow Clay</td>
</tr>
<tr>
<td>8 42</td>
<td>Very Sandy Yellow Clay</td>
</tr>
<tr>
<td>42 47</td>
<td>Blue Clay</td>
</tr>
<tr>
<td>47 66</td>
<td>Sand with 6% water</td>
</tr>
<tr>
<td>66 83</td>
<td>Course Sand</td>
</tr>
<tr>
<td>83 84</td>
<td>Water</td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1964)

1. Anna Mc. Gleason of Glasgow, Montana
   (Name of Appropriator) (Address) (Town)

   County of Valley State of Montana
   (County of Appropriator) (State)

   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 watering from well and household use.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1935 and continuously.

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: None.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Well and electric pump. Well is located SW 1/4 SE 1/4 10 ft. 39.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1935.

8. The depth of water table: Approximately 150 ft. deep. 40 ft. water 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: 1 inch steel casing. Electric pump. 120 ft. deep.

10. The estimated amount of groundwater withdrawn each year: 2000, 000 gallons.

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: 
Date: ____________

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)

1. Arm M. Olson, of Glasgow, Montana
   County of Valley
   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 from January 1, 1962

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Well and electric pump. Well is located SSW Sec 4 T28 R39.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1929

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 50,000 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
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 Approrriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE RECEIVED
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: William Riley
Address: Glasgow

Date well started: 5-18-71
Type of well: Drilled
Equipment used: Churn
Water Use: Stock

Estimated Annual Withdrawal

<table>
<thead>
<tr>
<th>Layer</th>
<th>Depth</th>
<th>Top</th>
<th>Bottom</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>23</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>160</td>
<td>160</td>
</tr>
</tbody>
</table>

Static water level: 23 ft
Pumping water level: 4 ft

Well developed by: Drilling

Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Driller's Signature: Carl Balm
Driller's Address: Ranci, Mo.

LICENSE NO. 25

Show exact depth of bottom
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. W. G. Fisher
   (Name of Appropriator)

   (Address)

   County of Valley
   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: 12-10-63

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
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Thomas R. Malloy
   (Name of Appropriator)

   1033-2 Ave. De Alcacer
   (Address)

   County of Valley
   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: use

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1945

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

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

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1943

   8. The depth of water table: 9 ft

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: 4'6"x4'6"x16 ft

   10. The estimated amount of groundwater withdrawn each year: 40,000

   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: Dec. 27, 1963

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

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

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

(Under Chapter 237, Montana Session Laws, 1961)

### STATE OF MONTANA

**ADMINISTRATOR OF GROUNDWATER CODE**

**OFFICE OF STATE ENGINEER**

**STATE ENGINEER**

### Declaration of Vested Groundwater Rights

1. **Name of Appropriator**, **Address**, and **Town**.

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

3. **Date or approximate date of earliest beneficial use; and how continu-
   ing the use has been Approp. 1921, Continued Sept. 1921**.

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 land
   to which water has been applied and name of the owner thereof**.

6. **The means of withdrawing such water from the ground and the loca-
   tion 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, 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

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

Mrs. Elma Ileson of Box 133
(Glasgow)

County of Valley
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: June 1924
   Used Continuously Since

4. The amount of groundwater claimed (in meers, inches or gallons per minute): 5gal per minute

5. If used for irrigation, give the acreage and description of the land 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 construction of the well, wells, or other works for withdrawal of groundwater: June 1924

8. The depth of water table: 25 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:

10. The estimated amount of groundwater withdrawn each year: 300 cu. 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: ____________________________
Date: 12-20-63

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; Tripplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropiator.
STATE OF MONTANA
County of Valley
Filing Fee: $20.00

DEC 30 1983

__11:10_ O'Clock P.M.

MARY LOUISE Clark & Recorder
by Valley County
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. RAY H. UPHAUS of P.O. 14

2. The beneficial use on which the claim is based: Stock water & house use

3. Date or approximate date of earliest beneficial use, and how continuous the use has been: 1942 always in use

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 15,000 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 on-ground or other means of withdrawal: Well pumps

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

8. The depth of water table: One well 24.5 ft. deep, 3 wells 80 ft. deep

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

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: RAY H. UPHAUS

Date: Dec. 31, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
STATE OF MONTANA
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: [Name]
Address: [Address]

Date well started: 7/13/70
Date well completed: 7/17/70
Type of well: [Type]

Equipment used: [Type]

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

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Run of Time</th>
<th>Rate and Weight of Water</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.08</td>
<td>4.050 D.</td>
<td>65 ft.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

N

Static water level: 30 ft.
Pumping water level: 45.5 ft.
at 13 gallons per minute measured minutes after pumping begun.

*Measured from ground level.

Well developed by [Type]
Power [Type]
Pump [Type]
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Driller's Signature: [Signature]
Driller's Address: 1041 2nd Ave. 60

LICENSE NO.: [Number]

Show exact depth of bottom
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: Lee K. Bright
Address: 401 W. Main St.
Havre, Montana

Date well started: 7/13/70
Completed: 7/17/70

Type of well: Drilled

Equipment used: (Drilled, bored or drilled)

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

Describe USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. lot, block and addition).

ESTIMATED ANNUAL WITHDRAWAL: 15,000

<table>
<thead>
<tr>
<th>Top of Ground</th>
<th>(In. above sea level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>From (Ft)</td>
<td>To (Ft)</td>
</tr>
<tr>
<td>1</td>
<td>38</td>
</tr>
</tbody>
</table>

Static water level: 38 ft.
Pumping water level: 14.5 ft.

at 15 gallons per minute, measured minutes after pumping began.

*Measured from ground level.

Well developed by:_______

for ______ hours

Power:_________ Pump:_________ HP

Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Driller's Signature: Walter Luce

Driller's Address: 1041 M St., Havre

LICENSE NO. 164
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Lloyd Nelson
   (Name of Appropionate)
   of Ranchard,410 Fort
   (Address)
   County of Valley
   the beneficial use on which the claim is based
   Household & Livestock

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

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

6. 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

8. The depth of water table
   Unkown

10. The estimated amount of groundwater withrawn each year
    700,000 gallons

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 12-30-63

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

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

Original to the County Clerk and Recorder, Duplicate to the State Engineer, Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 287, Montana Session Laws, 1961)

Owner: Blank
Driller: Blank
Date of Notice of Appropriation of Groundwater: Blank
Date well started: Blank
Date completed: Blank
Type of well: Blank
Equipment used: Blank
Water use: Blank

---

Static Water Level for non-flowing Well: 2.5 ft above top of ground.
Shut-in Pressure for Flowing Well: Blank
Pumping Water Level: 3.5 ft above top of ground.
Discharge in gal. per min. of flowing well: Blank

How tested: Blank
Length of test: Blank

Remarks: (Gravel packing, cementing, packers, type of sluice, 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)

---

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

Preston D. Myers

of Box 444

Glasgow

Valley

State of Montana

County of

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

1. 

2. The beneficial use on which the claim is based domestic for livestock and for irrigating.

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

   From January, 1946, every day.

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

   16 gal. 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 garden and lawn: 1/6 of acre more or less owned by Preston Myers.

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

   Submersible automatic electric pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Well dug many years ago in use when we moved to farm in 1946; we drilled a new well close by in August, 1958.

8. The depth of water table

   20' in summer; 40' in winter.

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 wells: 120' deep; 4" casing.

10. The estimated amount of groundwater withdrawn each year: 35,000 gal. per year.

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

   Not available.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: No record.

Signature of Owner: Preston D. Myers

Date: Dec 9th, 1962

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

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

Original to the County Clerk and Recorder, duplicate to the State Engineer, triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner:               Andrew

Driller:             Address:                

Date of Notice of Appropriation of Groundwater:    

Date well started    Date Completed:        

Type of well:        Equipment Used:       

(cog, driven, bored or drilled)                        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.

<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>From (Feet)</td>
<td>To (Feet)</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 23 6 ft. from bottom. 

Shut-in Pressure for Flowing Well:  

Pumping Water Level: 6 feet at 3 gal. per minute. 

Discharge in gal. per min. of flowing well:  

How Tested: Langford  

Length of Test:  67 1/2 feet.  

Remarks: (Gravel packing, cementing, packers, type of shut-off, 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.
Recently a copy of a groundwater appropriation form,  

- GW 1, Notice of Appropriation of Groundwater  
- X GW 2, Notice of Completion of Groundwater Appropriation by means of Well  
- GW 3, Notice of Completion of Groundwater Appropriation without Well  
- GW 4, Declaration of Vested Groundwater Rights (This form is obsolete and was limited by law to use only through 1965)

was forwarded to this office by the County Clerk and Recorder.

This form is identified by  
Owner Martin S. Anderson

Location T. 28N., R. 39E., Sec. 11  Document No. 20339

The form is complete as filed. This is to inform you that your GW form has been received and no further action is necessary on your part.

X The form is incomplete. Please complete the enclosed copy by providing information where indicated, or as noted here and return the corrected copy to the Montana Water Resources Board in Helena.

To the driller: Please indicate the owner of this well. If the same as the driller, so state.

Other.

County recording information is missing. Please forward this information to the Montana Water Resources Board in Helena.

Douglas L. Smith

---

Show exact depth of bottom.

Driller's License Number

Driller's Signature

place of use, if possible. Each small square represents 10 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.

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

Owner: Address: 
Driller: Address: 

Top of Ground
(Elev. above sea level) 

Date of Notice of Appropriation of Groundwater: Date Completed: 

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

Water Use: Domestic □ Manufactory □ 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>Strata</th>
<th>Kind</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static Water Level for non-flowing Well: feet.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-in Pressure for Flowing Well: feet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumping Water Level: feet at gal. per minute.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discharge in gal. per min. of flowing well.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>How Tested: Length of Test:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other relevant information.)

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

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

WILLIS M. BLANCHARD
of GLASGOW, MONTANA

County of VALLEY
State of MONTANA

I, WILLIS M. BLANCHARD, of GLASGOW, MONTANA, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1922, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Approximately 1900
   was re-used in 1940

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   Pump with 1-horse electric motor

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1940

8. The depth of water table: 255'

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: 330’-foot deep 4-inch galvanized pipe

10. The estimated amount of groundwater withdrawn each year: 324,000 gallons

11. The log of formations encountered in the drilling of each well if available:
   - 30’- Black mud-sandy sand; 30’-70’ Blue-muddy sand; more water; 70’-150’ Sand and dark shale; 150’-305’ Gravel and sand; more water; 205’-250’ Yellow sandy shale; 250’-280’ Artesian water sand; 285’-330’ Gray and white 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: December 16, 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.
### WATER WELL LOG

**Montana Bureau of Mines and Geology**

*Butte, Montana*

#### Owner and Address

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>Jackson</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jones</td>
<td>Jackson</td>
</tr>
</tbody>
</table>

#### Date Started and Completed

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

#### Location

- **Section:** 31
- **Township:** T. 29 N., R. 37 E.
- **Range:** 10
- **NE 1/4 sec. 26**

#### Type of Well

- Domestic
- Municipal
- Stock
- Irrigation

#### Water Use

- Domestic
- Municipal
- Stock
- Irrigation

#### Casing

- **Casing:**
- **Type:**
- **Size:**

#### Static Water Level

**Well:** 33

#### Shut-in Pressure

**Well:**

- **Pressure:** 100 lb. per sq. in.
- **Date:**

#### Pumping Water Level

- **Level:** 20 ft.
- **Rate:** 500 gal. per min.

#### How Tested

- **Test:** 1500 ft.
- **Date:**

#### Length of Test

- **Test:** 3 1/2 days

#### Remark

- **Remark:** (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>750 - 960</td>
</tr>
<tr>
<td>5 - 30</td>
<td>Yellow Clay</td>
</tr>
<tr>
<td>35 - 61</td>
<td>Blue Chalk</td>
</tr>
<tr>
<td>61 - 94</td>
<td>Clay - 2 Sand - Water</td>
</tr>
<tr>
<td>74 - 127</td>
<td>- Gravel - 2</td>
</tr>
</tbody>
</table>
Duplication of Vested Groundwater Rights

STATE OF MONTANA

Administrator of Groundwater Code
Office of State Engineer

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

1. Alvin E. Cotton and Harvelle E. Cotton, of 517, Second Avenue South, Glasgow (Address) - State of Montana (Town)
   County of Valley 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
   For household and irrigation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been since October 15, 1954, Continuous since.

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: For lawn trees and garden on Lot 5 & 6, Block 15. Owner Alvin E. Cotton
   Areas 2,000 sq ft.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: by 1/2 H.P. electric submersible pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Commencement: October 10, 1954. Completion: October 15, 1954.

8. The depth of water table 12 ft. (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: Diameter: 4 inches. Depth: 37 feet.

10. The estimated amount of groundwater withdrawn each year 250,000 gallons per year

11. The log of formations encountered in the drilling of each well if available: 82 feet clay into 12 feet pea gravel

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: Recorded in Book 57 of Deeds on Page 459, records of Valley County.

Alvin E. Cotton
Signature of Owner
Date December 30, 1965

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.
**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

**CHESTER H. EIDE, SR.**
(Name of Appropriator)

Box 586
Address of Appropriate Owner

Glasgow, Montana
(Town)

State of MONTANA
(State)

8. The depth of water table

12 foot from the top

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

149 feet deep

10. The estimated amount of groundwater withdrawn each year

300,000 gallons

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

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 December 13, 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.
# WATER WELL LOG

**Owner:**

**Address:**

**Driller:**

**Address:**

**Date Started:**

**Date Completed:**

**Location:**

**Type of well:**

**Equipment used:**

**Water use:**

- Domestic [X]
- Municipal [ ]
- Stock [ ]
- Irrigation [ ]
- Industrial [ ]
- Drainage [ ]
- Other:

**Casing:**

- Ft. to Ft. Type Size
- Ft. to Ft. Type Size
- Ft. to Ft. Type Size

**Perforated or Screened:**

- Ft. to Ft. Type Size

**Type of screen or perforations:**

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

**Shut-in pressure, for flowing well:**

**Pumping water level:**

- Feet at

**How tested:**

**Length of test:**

**Remarks:**

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

---

(over)
<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
<th>Water use</th>
<th>Casing</th>
<th>Perforated or Screened</th>
<th>Type of screen or perforations</th>
<th>Static Water level</th>
<th>Shut-in pressure</th>
<th>Pumping water level</th>
<th>How tested</th>
<th>Length of test</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Domestic</td>
<td>ft. to</td>
<td>ft. to ft.</td>
<td>feet</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Municipal</td>
<td>ft.</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Stock</td>
<td>ft.</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Irrigation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Junk</td>
</tr>
<tr>
<td>20</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Quick sand</td>
</tr>
<tr>
<td>30</td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>Blue clay</td>
</tr>
<tr>
<td>90</td>
<td></td>
</tr>
<tr>
<td>102</td>
<td>Gravel</td>
</tr>
<tr>
<td>102</td>
<td></td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

J. H. McIntyre

County of Valley, State of Montana

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

1. Wels

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) and average rate of both surface and underground

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.
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Date of Notice of Appropriation of Groundwater: 03-15-63
Date Completed: 03-19-63
Type of well: Drilled
Equipment Used: Rotary
Water Use: Domestic
Industriai
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 Drill (inches)</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>
</tbody>
</table>

Shut-in Pressure for Flowing Well

Pumping Water Level: 35 feet at 31 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested: Pumped
Length of Test: 5 hrs.

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.

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 Approporator.
**STATE OF MONTANA**

**ADMINISTRATOR OF GROUNDFWATER CODE**

**OFFICE OF STATE ENGINEER**

**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

---

1. **City of Glasgow**
   
   (Name of Appropriator)  
   
   (Address)  
   
   (Town)

**Valley**

**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:
   - Municipal water supply

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   - No. 1: 1929
   - No. 2: 1941
   - No. 3: 1938

4. The amount of groundwater claimed (in miner's inches or gallons per minute):
   - No. 1: 1000 gpm
   - No. 2: 1000 gpm
   - No. 3: 1000 gpm

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   - No. 1: 1939
   - No. 2: 1941
   - No. 3: 1938

8. The depth of water table:
   - 36 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:
   - No. 1: 16" 112 feet gravel pack
   - No. 2: 16" 121 feet gravel pack
   - No. 3: 16" 108 feet gravel pack

10. The estimated amount of groundwater withdrawn each year:
    - Total: 450,000,000 gal.

11. The log of formations encountered in the drilling of each well if available:
    - No. 1: 0-20 blue shale; 20-50 large gravel; 50-102 clay; 102-107 clay; 107-116 coarse gravel; 116-121 shale
    - No. 2: 0-95 blue clay; 95-102 large gravel; 102-107 clay; 107-116 course gravel; 116-121 shale
    - No. 3: 0-91 blue clay; 91-96 large gravel; 96-97 blue clay; 97-108 course gravel

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

---

**City of Glasgow**

Signature of Owner: [Signature]

Date: December 16, 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.*

[Originals 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)

Owner: CITY OF GLASGOW
A Municipal Corporation
Address: CITY PARK WELL No. 4

Driller: LAYNE MINNESOTA COMPANY
Address: MINNEAPOLIS, MN

Date of Notice of appropriation of groundwater: __________

Date well started: 5/1/69 Date completed: 8/22/69

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

Water use: Domestic □ Residential □ 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. Slow 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>Depth of Water Table</th>
<th>Flow</th>
<th>Type of Well</th>
</tr>
</thead>
<tbody>
<tr>
<td>36&quot;</td>
<td>16&quot;</td>
<td>34&quot;</td>
<td>Other Drainage</td>
</tr>
<tr>
<td>36&quot;</td>
<td>16&quot;</td>
<td>42</td>
<td>Other D</td>
</tr>
<tr>
<td>38&quot;</td>
<td>16&quot;</td>
<td>83</td>
<td>Other D</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well 113.6 feet.

Shut-in Pressure for Flowing Well ____________

Pumping Water Level ____________ feet at ____________ gal. per minute.

Discharge in gal. per min. of flowing well ____________

How Tested: TURBINE PUMP

Length of Test: ____________________ hours

Remarks: (Gravel packing, cementing, pack-

cement, type of shutoff), GRANULAR WALL

BETWEEN 16" AND 34" HOLE

34" CASING CEMENTED IN 36" HOLE

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, three 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

Driller’s Signature
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana
WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Dr. Smith Clinic</th>
<th>Address</th>
<th>Glasgow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>C. A. B. Palmer</td>
<td>Address</td>
<td>Soc.</td>
</tr>
</tbody>
</table>

Date Started: 10/19/59  Date Completed: 11/3/59
Location: Sec. 12 T. 38 N. R. 39 E. sec. 56

Type of well: Drilled  Equipment used: Churn

<table>
<thead>
<tr>
<th>Water use</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water use</td>
<td>Domestic</td>
<td>Municipal</td>
<td>Stock</td>
<td>Irrigation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>4½</td>
</tr>
</tbody>
</table>

Casing: ft. to ft.  Type: Screen  Size: 4½ x 2

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

Type of screen or perforations:

Static Water level, for non-flowing well: 58 7 0 0 ft.

Shut-in pressure, for flowing well: 10 lb./sq. in. on: (date)

Pumping water level: 92 feet at 16 gal. per min.

How tested: Balancing

Length of test: 2 hr.

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 55</td>
<td>Yellow Clay</td>
</tr>
<tr>
<td>55 - 97</td>
<td>Blue Clay</td>
</tr>
<tr>
<td>97 - 107</td>
<td>Sand Water</td>
</tr>
<tr>
<td>107 - 111</td>
<td>Sand, gravel mixture</td>
</tr>
<tr>
<td>Field</td>
<td>Details</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>Owner</td>
<td>Glen Day</td>
</tr>
<tr>
<td>Address</td>
<td>Glasgow</td>
</tr>
<tr>
<td>Driller</td>
<td>Carl Palm</td>
</tr>
<tr>
<td>Address</td>
<td>Saco</td>
</tr>
<tr>
<td>Date Started</td>
<td>5/23/66</td>
</tr>
<tr>
<td>Date Completed</td>
<td>5/24/66</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 15, T. 28, R. 27, 1/4 sec. 8 W</td>
</tr>
<tr>
<td>Type of well</td>
<td>Domestic</td>
</tr>
<tr>
<td>Equipment used</td>
<td>(Unspecified)</td>
</tr>
<tr>
<td>Casing:</td>
<td>Perforated or Screened</td>
</tr>
<tr>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Casing:</td>
<td>Size</td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>Size</td>
</tr>
<tr>
<td>Static Water level, for non-flowing well</td>
<td>40 feet</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well</td>
<td>1 lb./sq. in. on</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>45 feet at 16 sal. per min.</td>
</tr>
<tr>
<td>How tested</td>
<td>Drilling</td>
</tr>
<tr>
<td>Length of test</td>
<td>1 ft.</td>
</tr>
<tr>
<td>Remarks:</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</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>0</td>
</tr>
<tr>
<td>To</td>
<td>10</td>
</tr>
<tr>
<td>11-22</td>
<td>Sand and gravel</td>
</tr>
<tr>
<td>24-50</td>
<td>Soft blue clay</td>
</tr>
<tr>
<td>52-92</td>
<td>Coarse silt</td>
</tr>
<tr>
<td>93-98</td>
<td>Sand and gravel</td>
</tr>
<tr>
<td></td>
<td></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>0</td>
<td>Top 30.6</td>
</tr>
<tr>
<td>2</td>
<td>Coral</td>
</tr>
<tr>
<td>18</td>
<td>Yellow Clay</td>
</tr>
<tr>
<td>22</td>
<td>Sandy Blue Clay</td>
</tr>
<tr>
<td>24</td>
<td>Sand</td>
</tr>
<tr>
<td>50</td>
<td>Course Sand</td>
</tr>
<tr>
<td>83</td>
<td></td>
</tr>
<tr>
<td>97</td>
<td></td>
</tr>
</tbody>
</table>

Log of Well
STATE ENGINEER

WATER WELL LOG

Owner: Glasgow Ready-Mix Co.  Address: Glasgow, Montana
Driller: Carl Polan  Address: Saco

Date Started: 9/10/58  Date Completed: 9/12/58

Location: Sec. 18  Twp. 38 N  R. 39 E  PM. 5 E

Type of well: Drilled
Equipment used: Churn

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

Casing: Top to 12 ft.  Type: C-150  Dia.: 4 1/2 in.
Casing: 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: 100 feet
Shut-in pressure, for flowing well: lb./sq.in. on: (date)

Pumping water level: Pumps 72 T 2T 120 feet at 30 gal. per min.
How tested: PUMPING
Length of test: 6 hr.

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

Gravel packed at bottom to sand

(over)