Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Lolo Hot Springs Resort
Address: Lolo, Montana

Driller: Glenn Camp
Address: Missoula, Montana

Date of Notice of Appropriation of Groundwater: Oct 27, 1964
Date well started: Nov 3, 1964
Date completed: Nov 3, 1964

Type of Well: Drilled
Equipment Used: Churn drill

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>Kind of Rock</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot;</td>
<td>8&quot; 24 lbs</td>
<td>16&quot; above G.I. Mills</td>
<td>32&quot; 3 circles</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 5 feet

Shut-in Pressure for Flowing Well

Pumping Water Level: 37 feet at 6 gal. per minute

Discharge in gal. per min. of flowing well

Test pump
Length of Test: 24 hours

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

Show exact depth of bottom.

License # 7
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.
Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

1. U.S. Forest Service, Lolo Ranger Station, Lolo
   (Name of Appropriator) 
   (Address) 
   (Town)
   County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is domestic.

3. The rate of use in gallons per minute or miner's inches of groundwater claimed:
   \[ \text{1/25 second foot} \]

4. The annual period (inclusive dates) of intended use:
   Jan. 1 - Dec. 31

5. The probable or intended date of first beneficial use:
   July 1, 1965

6. The probable or intended date of commencement and completion of the well* or wells*:
   N.A.

7. The location, type, size and depth of well or wells contemplated:
   N.A. (Spring)

8. The probable or estimated depth of the water table or artesian aquifer:
   N.A.

9. Name, address and license number of the driller engaged:
   N.A.

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

---

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
The instrument was examined and tiled in the instrument office of
Mason County, State of Montana

October 21, 1935

By

Robert V. Brown

U.S.A. Forest Service

is the agent for

I received and filed this instrument for

record on the 21st day of October, 1935.

At the office of

Mason County, State of Montana

I, Martin S. Behner, County Recorder,

By

is the Deputy

Paid

October 21, 1935

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

Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

U.S. DEPARTMENT OF AGRICULTURE
U.S. Forest Service

1. I, ________________________________, of ________________________________, Lolo Ranger District, Lolo
   County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is ________________________________.

3. The rate of use in gallons per minute or miner's inches of groundwater claimed is ________/100 sec. ft.

4. The annual period (inclusive dates) of intended use is ________________________________.

5. The probable or intended date of first beneficial use is ________________________________.

6. The probable or intended date of commencement and completion of the well* or wells* is ________________________________.

7. The location, type, size and depth of well or wells contemplated is ________________________________

8. The probable or estimated depth of the water table or artesian aquifer is ________________________________.

9. Name, address and license number of the driller engaged is ________________________________

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

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

   Signature of Appropriator: ________________________________

   Date: ________________________________

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
I received and filed this instrument on the 21st day of June, 1953, at 9:30 o'clock, A.M., present before me,
of Missoula County, State of Montana.

WITNESS my hand:

MARTIN L. BRIMMER, County Recorder

Deputy

For $7.50 paid
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name or Appraiser</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>6</td>
<td>U.S. DEPT OF AGRICULTURE</td>
<td>GW 1</td>
<td>212136</td>
<td>GW 2</td>
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<tr>
<td>32</td>
<td>U.S. DEPT OF AGRICULTURE</td>
<td>GW 1</td>
<td>212131</td>
<td></td>
</tr>
</tbody>
</table>
Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

U.S. DEPARTMENT OF AGRICULTURE

1. I, [Name of Appropriator], U.S. Forest Service, of [Address], intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is: [Specify]

3. The rate of use in gallons per minute or miner's inches of groundwater claimed: [Specify]

4. The annual period (inclusive dates) of intended use: [Specify]

5. The probable or intended date of first beneficial use: [Specify]

6. The probable or intended date of commencement and completion of the well* or wells*: [Specify]

7. The location, type, size and depth of well or wells contemplated: [Specify]

8. The probable or estimated depth of the water table or artesian aquifer: [Specify]

9. Name, address and license number of the driller engaged: [Specify]

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

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

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

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

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

[Signature]
[Date]
I received and filed this instrument for record on the 21st day of October 1903 at 2:02 o'clock P.M. at the office of the Recorder of Missoula County, State of Montana.

Witness my hand:

MARTIN J. BERNIER, County Recorder.
Deputy

[Signature]

Copy
2/10/36
Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

U.S. DEPARTMENT OF AGRICULTURE

1. I, of Lolo Ranger Station, Lolo
   (Name of Appropriator) (Address) (Town)
   County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is domestic

   (describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner’s inches of groundwater claimed

4. The annual period (inclusive dates) of intended use May 15 - Sept. 30

5. The probable or intended date of first beneficial use prior to 1938

6. The probable or intended date of commencement and completion of the well* or wells* N.A.

7. The location, type, size and depth of well or wells contemplated N.A. (Spring)

8. The probable or estimated depth of the water table or artesian aquifer N.A.

9. Name, address and license number of the driller engaged N.A.

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

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
I, received and filed this instrument for record on the 25th day of Oct., 1913, at 3:32 o'clock p.m., in the office of the County Recorder, State of Montana, Witness my hand.

MARTIN S. BINDER, County Recorder

May 6, 1913, Deputy

Paid
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>File No.</th>
<th>Remarks</th>
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<tr>
<td>1</td>
<td>Pettit, Cecil A.</td>
<td>GW2</td>
<td>295457</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Pettit, Cecil A.</td>
<td>GW3</td>
<td>257559</td>
<td></td>
</tr>
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<td>1</td>
<td>Pettit, Cecil A.</td>
<td>GW1</td>
<td>214587</td>
<td>Filed GW-16-64GW2</td>
</tr>
<tr>
<td>1</td>
<td>Johnson, Leslie W</td>
<td>GW4</td>
<td>211677</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Leonard, Johnnie &amp; Richard</td>
<td>GW3</td>
<td>214587</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Renfro, Paul L. &amp; Richard</td>
<td>GW2</td>
<td>291316</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cochran, John C.</td>
<td>GW4</td>
<td>209925</td>
<td></td>
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<td>Leonard, Richard</td>
<td>GW3</td>
<td>214587</td>
<td>See above Sec.1.</td>
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<td>2</td>
<td>Phelps, Nadine R.</td>
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<td>304725</td>
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<td>11</td>
<td>Pettit, Cecil A.</td>
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<td>214988</td>
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<td>14</td>
<td>U.S. Dept. of Agriculture</td>
<td>GW1</td>
<td>312134</td>
<td>Filed GW-16-64GW2</td>
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<tr>
<td>2</td>
<td>Leonard, Richard</td>
<td>GW3</td>
<td>214588</td>
<td></td>
</tr>
</tbody>
</table>
Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

1. I, CECILIA PFEITIT, of LOLE, MISSOULA,
   (Name of Appropriator) (Address) (Town)
   County of MISSOULA, State of MONTANA, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is FARMING, APPROXIMATELY 25 ACRES
   (describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed.

4. The annual period (inclusive dates) of intended use APRIL THRU SEPT.

5. The probable or intended date of first beneficial use APRIL 1962

6. The probable or intended date of commencement and completion of the well* or wells* APRIL 1962

7. The location, type, size and depth of well or wells contemplated 6 FEET DEEP

8. The probable or estimated depth of the water table or artesian aquifer 12 FEET

9. Name, address and license number of the driller engaged MUN.

10. Give such other similar information as may be useful in carrying out the policy of this act.
    WELL DUG WITH PT.'/R & H.V.E.
    PUMP NOT OF TUMP

Signatures of Appropriator

Date 12-24-62

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner... SECIL J. PETTIT
Address... LOLO, MONTANA

Driller... DAVIS WELLS DRILLING &
Address... MISSOULA, MONTANA

Date of Notice of appropriation of groundwater...

Date well started... Sept., 21, 1922; Date completed... Sept., 22, 1922.

Type of well... Dug
Equipment used... Churn Drill
(Dug, driven, bored or drilled)

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

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

<table>
<thead>
<tr>
<th>Site of Drilled Site</th>
<th>Site and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; I.D.</td>
<td>6&quot; I.D.</td>
<td>17 lb</td>
<td>31/8&quot;</td>
<td>none</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

Shut-In Pressure for Flowing Well

Pumping Water Level... 185 feet

Discharge in gal. per min. of flowing well

How Tested... 6IN. ADD. 3:10

Length of Test... 4 hours

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

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

License 7
Driller's License Number

Driller's Signature

45744

Verona R. Cruse, County Recorder.
By: W. W. Domagalski, Deputy
For $2.50.
I have hereunto set my hand and seal this 10 day of October 1967.

[Seal]
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: Dec 20th, 1963

Johnnie Mae And
Owner: Richard G. Leonard
Address: Box 28, Lolo, Montana

Contractor (if any)

Address of Contractor

Date Started

Date Completed

Describe means of obtaining groundwater without a well “as by sub-irrigation and other natural processes”. Include depth to water when applicable. Sub-Irrigation 2 Feet Depth

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.

Sub-Irrigation From 1st day to 1st of November

Signature of Owner

Date: 20-Dec-1963

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation Without Well
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 4/7/67
Owner: Cecil A. Pettit  Address: Lolo, Montana
Contractor (if any): None
Address of Contractor: None
Date Started: 4/7/67  Date Completed: Not Completed

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

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.

One (1)-inches of water.

Used-365-days-per-year.

Signature of Owner: Cecil A. Pettit
Date: April 7, 1967

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology; quadruplicate for the Appropriator.
I received and filed this instrument for record on the ______ day of ______, ______, at ______ o'clock ______, in the ______ County, State of Montana, and have hereunto set my hand:

[Signature]

[Name]

County Recorder

[Seal]

[Name]

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

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

STATE ENGINEER

1. WESLEY W. JOHNSON, of Star Route, Polo
   (Name of Appropriator) (Address)
   County of MISSOURI, State of MONT.,
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: JUNE 20, 1950.
      CONTINUOUS AS NEEDED.

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): can not estimate.

   5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of
      the owner thereof: APPROXIMATELY 10 ACRES.

   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

   8. The depth of water table: 14 FT TO WATER.

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the
      withdrawal of groundwater: 6" HOLE 44 FT. A DEEP

   10. The estimated amount of groundwater withdrawn each year: can not estimate.

   11. The log of formations encountered in the drilling of each well if available: GRAVEL AND 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: WESLEY W. JOHNSON.

Date: OCT 9, 1963.

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriate.
I received and filed this instrument for record on the 7th day of Dec. 1963 at 2:30, o'clock AM, permanent files of Missoula County, State of Montana.

Witness my hand:

MARTIN S. BEUSER, County Recorder

By: [Signature]

File No. 280
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well

Due to the nature of the content, this form is for recording information about groundwater well completion. It includes details such as the location, type of well, water use, and various measurements related to the well's performance.

**Top of Ground**

(Elav. above sea level)

**0-13 Sand and gravel**

**13 Static water level**

**13-25 Sand, gravel, and water**

**25-36 Sand, gravel, water, and clay**

**36-41 Sand, gravel, and water**

**41 Exact depth of bottom**

**Size of Drilled Hole**

**Size and Weight of Casing**

**Depth**

**Perforations**

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight</th>
<th>Depth</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>17#</td>
<td>41 ft.</td>
<td></td>
</tr>
</tbody>
</table>

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

17 feet

**Shut-in Pressure for Flowing Well**

50 feet

**Pumping Water Level**

25 feet

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

40 gal. per minute

**How Tested**

Air lift (compressor)

**Length of Test**

2 hours

**Remarks**

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

**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: May 5, 1970

DATE WELL STARTED: May 5, 1970

DATE COMPLETED: May 8, 1970

Owner: John Doe

Address: 123 Main St.

County: Missoula

State Water Conservation Board
I received and filed this instrument on the 16th day of December, 1970, at 2:15 o'clock A.M., permanent time of Winona County, State of Minnesota.

Witness my hand.

Vance B. Gunson, County Judge
By the, Deed Commissioner, Deputy
For, 12/20/
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

John C. Cochran, 515 Woodworth, Missoula
County of Missoula, State of Montana
have appropriated groundwater according to the Montana laws, in effect prior to January 1, 1962, as follows:

1. 

2. The beneficial use on which the claim is based: WATER FOR HOME AND GARDEN AND FARM

3. Date or approximate date of earliest beneficial use: AUGUST, 1952 - CONTINUOUS

4. The amount of groundwater claimed: (in miner's inches or gallons per minute) ABOUT 10 GALS. 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: Garden and town

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: Started in June, 1952 - Completed June, 1952

8. The depth of water table: SOME OR NO WATER, ANOTHER AT 87' WHICH IS DEPTH OF PROVED WATER, I'M WORKING ON IT NOW

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: John C. Cochran

Date: August 19, 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.
Notice of Completion of Groundwater Appropriation
Without Well
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: Dec 20th 1963

Johnnie Mae And
Owner: Richard O. Leonard
Address: Box 28 Lolo, Montana

Contractor (if any)...
Address of Contractor...

Date Started: Date Completed:

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Sub-Irrigation 2 Feet Depth

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...

Sub-Irrigation From 1st May to 1st of
November...

Signature of Owner...
Date: 20-Dec 1963...

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
I received and filed this instrument for record on the 15th day of June, 1935 at 9:30 A.M. in the office of the Clerk of Governors County, State of Missouri.

Witness my hand:

MARTIN T. BELLER, CLERK, RECORDER

By: E. W. S.

Deputy

[Signature]
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

Owner: Nadine R. Phelps
Address: Lolo, Montana

Driller: Liberty Drilling Co
Address: Missoula, Montana

Date of Notice of appropriation of groundwater: None filed

Date well started: 8/12/70
Date completed: 9/15/70

Type of well: Drilled
Equipment used: Cable Tools

Size of Drilled Hole: 6" x 6 5/8"
Size and Weight of Casing: OD x 3/4" +2 173 1/2"

Perforations:
- Mills Knife: 52
- 171.7"

Formation Log:

0 - 10 Gray clay and dirt with boulders mixed in.
10 - 45 Broken rock and boulders imbedded in silt.
45 - 50 Silt and smaller broken rock.
50 - 68 Boulders and broken rock mixed in brown silt. Seeps of water.
68 - 90 Gray broken rock and boulders.
90 - 97 Gray broken rock with stringers of clay.
97 - 126 Gray broken rock.
126 - 163 Dark gray rock.
163 - 166 Gray clay with broken rock imbedded.
166 - 167 1/2 Rock with stringers of clay.
167 1/2 - 168 Brown rock.
168 - 170 Gray rock.
170 - 173 Tan sandstone.
173 - 177 Gray sandstone.
177 - 184 Granite.
184 - 185 Gray sandstone.
185 - 198 Granite.

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, packing, etc.)

Sheet 1 of 2

Driller's License Number: 
Driller's Signature: 

4839
STATE OF MONTANA
ADVISOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Cecil A. Pettit
   (Name of Appropriator)
   of
   (Address)
   (Town)
   County of MISSOULA
   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: Household and Irrigation

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 250-gallons per hour

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:
   2-Acre of lawn, garden, and orchard
   Cecil A. Pettit

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   Electric Pump
   (location on map shown as #)

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1950

8. The depth of water table: 61

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
   One (1) 7' hand dug well

10. The estimated amount of groundwater withdrawn each year: 98000 gallons a year Approx.

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

   Signature of Owner: Cecil A. Pettit
   Date: 12-27-1965

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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

1. I, [Name of Appropriator], (Address) (Town) County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is: [describe lands to be benefited, if for irrigation]

3. The rate of use in gallons per minute or miner's inches of groundwater claimed: [rate]

4. The annual period (inclusive dates) of intended use: [dates]

5. The probable or intended date of first beneficial use: [date]

6. The probable or intended date of commencement and completion of the well: [date]

7. The location, type, size and depth of well or wells contemplated: [location, type, size, depth]

8. The probable or estimated depth of the water table or artesian aquifer: [depth]

9. Name, address and license number of the driller engaged: [information]

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

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

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.
I received and filed this instrument for record on the 21st day of Oct. 1933
at 3:45 o'clock A.M., personalables of
Minnawa County, State of Montana.
Witness my hand.

MAURICE S. BERNARD, County Recorder.
By W. H. HINGEN, Deputy

 Fee $ .
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1936

Johnnie Mae and
Owner: Richard G. Leonard
Address: Box 28, Lolo, Mont.

Contractor (if any)
Address of Contractor

Date Started: Date Completed:

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

Quantify 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. All Water from

John Creek, 15 Inches from Lolo Creek
Pump and Irrigation ditch:

Signature of Owner: Richard G. Leonard
Date: 20th Dec 1963

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
I received and filed this instrument for record on the 21st day of March 1888, at 10 o'clock, A.M., permanent title of Minerals County, State of Nevada.
Witness my hand:

MARTIN J. SCHMIDT, County Recorder

By: ____________________________
   Deputy County Recorder

Feb. 5, 1888. Paid
Mr. Richard Leonard, Box 28, Lolo, Montana

May 15, 1964

12/20/63

214588

from Lolo Creek
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
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<td>SW 3</td>
<td>201015</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Frazier, Robert A.</td>
<td>SW 1</td>
<td>201163</td>
<td>Wild sw 16 SW 2</td>
</tr>
<tr>
<td>5</td>
<td>Baker, Jerry</td>
<td>SW 4</td>
<td>215233</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Holcomb, William</td>
<td>SW 2</td>
<td>227163</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Holcomb, Mary</td>
<td>SW 2</td>
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<td>5</td>
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<td>SW 2</td>
<td>232733</td>
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<td>US Dept. of Agr.</td>
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<td>Moulton, Holmes</td>
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<td>Lawrence, John</td>
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<td></td>
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</tbody>
</table>
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: December, 1921

Owner: Edna Tucker Address: Lolo, Montana

Contractor (if any) Address of Contractor

Date Started: prior to 1921 Date Completed: December, 1921

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Water from spring in Sec. 3, T.11 R.20 M.M., thence running in 2" pipe in Northerly direction for approximately 350 ft., to 2 water troughs for livestock and branch pipe running Easterly to house, yard, & garden of the appropriator, also stream from same spring running in Northerly direction to reservoir from which a stream runs to a pasture where the water is used for irrigation.*

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 (continuous)

• The total appropriation being 25 miner's inches, continuous flow, or 4.67 gallons per second. Said appropriation was made by appropriator's predecessor prior to 1921, but the spring was improved and the flow of water increased in 1921, with continuous flow thereafter.

Signature of Owner: Edna Tucker
Date: Dec 21, 1962

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
I received and filed this instrument for record on the 1st day of June, 1876, at 2 o'clock, P.M., permanent time of Missoula County, State of Montana.

Witness my hand:

MAXIM S. ERVING, County Register

Deputy

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

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

1. Larry M. Baker, 1020 E. 4th St., Lolo
   (Name of Appropriator) (Address) (Town)

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

2. The beneficial use on which the claim is based: Drinking & Irrigation of Grain
3. Date or approximate date of earliest beneficial use: Not applicable
4. The amount of groundwater claimed (in miner's inches or gallons per minute): Not applicable
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: About 10 acres of farm & flower gardens. Owner: self
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: All pumps except one with good man. South line on Lt. 3 of Sec. 11, T. 2 S., R. 22, Sec. 11

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Not applicable
8. The depth of water table: Not applicable
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Depth: not applicable
10. The estimated amount of groundwater withdrawn each year: 300,000 gal
11. The log of formations encountered in the drilling of each well if available: Not applicable
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: Not applicable

Signature of Owner: ____________________________
Date: 12-31-63

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

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

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

**William A. & Gertrude S. Florin**  
Owner

**Lolo Creek Road**, **Montana**  
Address

**Lolo, Montana**  
*Date well started: 10/21/64*  
*Completed: 10/24/64*

**Type of well: Drilled**  
*(Dig, drives, bored or drilled)*

**Equipment used: Cable Tool Rig**  
*(Cable, drill, rotary or other)*

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

*Describe:*  

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

**Estimated Annual Withdrawal**

<table>
<thead>
<tr>
<th>Size (Feet)</th>
<th>OD x ID</th>
<th>From</th>
<th>To</th>
<th>Kind</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>6' 6 5/8&quot;</td>
<td>6 1/2&quot;</td>
<td>0</td>
<td>48</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

*Static water level: 20 ft.*

*Pumping water level: 32 ft.*

*Measured from ground level. Measured 180 minutes after pumping began.*

*Well developed by Air Lift Pump for three hours.*

**Power Gas:** Pump 30 HP

**Remarks:** (Gravel packing, cementing, packers, type of shutoffs, well water entering well through open bottom of 6 inch casing)

**INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.**

<table>
<thead>
<tr>
<th>N</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>E</td>
</tr>
</tbody>
</table>

*SW 1/4 NE 1/4 Sec. 5*  
*T. 11 N. R. 20 W.*

**license no. 33S-52**
I received and filed this Instrument for record on the 7th day of January, 1930, at 3 o'clock, P.M., permanent time, of Mississippi County, State of Missouri.
Witness my hand,

[Signature]

By [Signature], Deputy

Fee $3.00, Paid.
**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:** Gary Holmes

**Address:** Lololo, Montana

**Date well started:** April 6, 1973

**Date well completed:** April 8, 1973

**Type of well:** Drilled well

**Equipment used:** Churn drill

**Water Use:** Domestic [x] Municipal [ ] Stock [ ] Irrigation [ ]

**Other:** [ ]

*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>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>6&quot;</td>
<td>7/8/&quot;</td>
<td>0</td>
<td>78</td>
<td>1/16 x 5</td>
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</table>

**Static water level:** 52 ft

**Pumping water level:** 79 ft

**Pumping at:** 30 gallons per minute

**Measured after:** 60 minutes after pumping begun.

*Measured from ground level.

**Well developed by:** Gravel packing cementing, packers, type of shutoff

**Power:** Pump

**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:** Charles Watson

**Driller's Address:** Ravalli Drilling Co., Victor, Mont.

**License No.:** 200

**Top of Ground (Elev. above sea level):**

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Topsoil</td>
</tr>
<tr>
<td>1</td>
<td>Sand, gravel, tight pressed</td>
</tr>
<tr>
<td>46</td>
<td>Sand, gravel, water bearing</td>
</tr>
</tbody>
</table>

**Show exact depth of bottom:** 78 ft
I received and filed this instrument for record on the 26 day of June, 1927, at 3:00 o'clock P.M., in the Register's Office of Washington County, in the State of Washington. Witness my hand:

[Signatures]

[Seal]
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
(Revised 1969)

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: Richard H. Jorgensen
Address: 800 Box 1471
Missoula, Montana

Date well started: 5/25/71
Completed: 6/3/71

Type of well: Drilled
Equipment used: Churn Drill
Water Use: Domestic

*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: 31,536,000

<table>
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<tr>
<th>Size of Drilled Hole</th>
<th>Size oflinst. of Drilling</th>
<th>From To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6 5/8&quot; OD x 1/2&quot;</td>
<td>40'</td>
<td>Mills Knife</td>
</tr>
</tbody>
</table>

Static water level: 17'6" ft.
Pumping water level: 21" ft.

At: 60 gallons per minute measured 60 minutes after pumping began.

*Measured from ground level.

Well developed by Mr. L. H. Pump
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: Liberty Drilling Company
Driller's Address: 2000 Reserve
Missoula, Montana
LICENSE NO.: 52
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Donald D. Paterson
Address: Missoula, Montana
Driller: Liberty Drilling Co.
Address: Missoula, Montana

Date well started: 4/25/66
Date completed: 5/8/66

Type of well: Drilled
Equipment used: Cable Tools

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>6&quot; 6 5/8&quot;OD</td>
<td>X 3/8&quot;</td>
<td>+1</td>
<td>78</td>
<td>NONE</td>
</tr>
</tbody>
</table>

Water rises in well
53 feet from surface

Static Water Level for non-flowing well 53 feet.

Shut-in Pressure for Flowing Well: None.

Pumping Water Level: 68 feet.

Discharge in gal. per min. of flowing well: 30 gal. per minute.

How Tested: Air Lift Pump.

Length of Test: Two hours.

Remarks: (Gravel packing, cementing, packers, type of shutoff.) All water entering well is coming through open bottom of six inch casing. Wells with open bottom completions in this area can be depended upon to produce clear sand from water year after year as long as they are not overpumped, i.e., they should be pumped at 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).

Three and One Half Acres

Show exact depth of bottom.
Bottom of hole 78'

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

File No. STATE WATER CONSERVATION BOARD
MAY 12 1966
County Missoula

Approved Stock Form—State Printing Co., Helena, Montana—4232.
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Well on Lot #4 Allen Acres, 3 miles W. of Lolo

Owner: Albert Southwell
Address: 2403 Woodland Dr

Driller: Glenn Camp
Address: Missoula, Mont

Date of Notice of Appropriation of Groundwater.

Date well started: 11/6/64
Date Completed: 11/10/64

Type of well: Drilled
Equipment Used: Churn drill
(Churn, drill, rotary or other)

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>5&quot;</td>
<td>5&quot; T.D.</td>
<td>1' above pit</td>
<td>floor to 43'</td>
<td>None</td>
</tr>
<tr>
<td>14.62' to 16.50'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 32' from 6.1' feet.

Shut-in Pressure for Flowing Well:

Pumping Water Level: 35 feet at 20 gal. per minute.

Discharge in gal. per min. of flowing well:

How Tested: Test pump
Length of Test: 1 hr

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

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 Appropriate.

License # 7
Driller's License Number
Glenn Camp
Driller's Signature

40158
I received and filed this instrument to record on the 28th day of July 1962, at 4:00 P.M., Columbus, Ohio, permanent files of Muskingum County, State of Ohio.
Witness my hand:

[Signature]
Deputy County Recorder

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

WATER WELL LOG

Owner:    Martin Smith
Address:

Driller:  John Farrell
Address:  Anaconda

Date Started:  8-13-1959  Date Completed:  8-13-1959

Location:  Sec. 6  T. 11  R. 20  M. 14 sec.

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>(Churn drill, rotary, other)</td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
</tr>
<tr>
<td>Municipal</td>
<td></td>
</tr>
<tr>
<td>Stock</td>
<td></td>
</tr>
<tr>
<td>Irrigation</td>
<td></td>
</tr>
<tr>
<td>Drainage</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

Type of well:  Domestic
Equipment used:  (Churn drill, rotary, other)

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

Casing:  6 ft. to 34 ft.
Type:  Steel
Size:  6"

Casing:  
Type:  
Size:  

Casing:  
Type:  
Size:  

Perforated or Screened:  Ft. to ft.
Type of screen or perforations:  

Static Water level, for non-flowing well:  13 feet.

Shut-in pressure, for flowing well:  lb./sq. in. on: (date)
Pumping water level:  20 feet at 21 gal. per min.

How tested:  Boiler

Length of test:  1 hr.

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

Remarks (over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 6</td>
<td>Pit</td>
</tr>
<tr>
<td>6 - 30</td>
<td>Gravel and sand</td>
</tr>
<tr>
<td>30 - 34</td>
<td>Water gravel</td>
</tr>
</tbody>
</table>
### Notice of Appropriation of Groundwater

**U.S. DEPARTMENT OF AGRICULTURE**

1. **U.S. Forest Service**, of **Lolo Ranger Station**, Lolo
   - **County of Missoula**, **State of Montana**, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is **watering range stock**.

3. The rate of use in gallons per minute or miner's inches of groundwater claimed: **1/100 sec. ft.**

4. The annual period (inclusive dates) of intended use: **Nov. 1 - Oct. 30**

5. The probable or intended date of first beneficial use: **June 1, 1963**

6. The probable or intended date of commencement and completion of the well* or wells*: **April 1, 1963**

7. The location, type, size and depth of well or wells contemplated: **N.A.** (Spring)

8. The probable or estimated depth of the water table or artesian aquifier: **N.A.**

9. Name, address and license number of the driller engaged: **N.A.**

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

---

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropiator.
I received and filed this instrument for record on the 11th day of September, 1922, at 3:00 o'clock p.m. permanent time of Missoula County, State of Montana.

Written my hand:

MARTIN L. NEILSEN, County Recorder

By: DEPUTY COUNTY RECORDER

Fee: $30.00
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: June 15, 1896

John M & Helen Schroeder Address: LoLa, Montana

Contractor (if any) none

Address of Contractor

Date Started: June 15, 1896 Date Completed: July 15, 1896

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring emerges from outcrop and runs approximately 150 feet into reservoir above earth fill dam. Water used for stock water and garden irrigation

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent steady flow of 20 gallons per minute estimate approximate lengths of periods of use

Signature of Owner Helen Schroeder

Date: December 18, 1963

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

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

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

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

(Name of Appropriator) (Address) (Town)
County of Montana 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: irrigation and domestic requirements.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: June 1960 - used continuously.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 100 Montana inches from No. 1, 100 inches from No. 2, and 100 inches from No. 3.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: No. 1 well irrigates 60 acres, No. 2 well irrigates 40 acres, No. 3 well in 2000 yard garden.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Wells located as shown in map. No. 1, 100 Montana inches withdrawn by centrifugal pump. No. 2, 100 Montana inches withdrawn by electric motor. No. 3 has an automatic electric pressure system.

7. The date of commencement and completion of the construction of the wells, wells, or other works for withdrawal of groundwater: May 1940, begun, completed June 1960.

8. The depth of water table: Mean depth approx. 7' above No. 1, 27' above No. 2, 27' above No. 3.

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 & No. 2 are excavated by bulldozer. No. 3 is driven pipe to a depth of 36 feet. Pipe is 11.5 inches in diameter.

10. The estimated amount of groundwater withdrawn each year: 100 Montana inches, continuous flow from each of No. 1, 100 Montana inches from No. 2, and 100 Montana inches from No. 3.

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

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

Signature of Owner: David MacKay
Date: Nov. 30, 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.
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>Top of Ground Approx.</th>
<th>Notice of Completion of Groundwater Appropriation by Means of Well</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Elev. above sea level 3,187)</td>
<td>(Under Chapter 237, Montana Session Laws, 1961)</td>
</tr>
<tr>
<td>0 - 3 Black dirt.</td>
<td></td>
</tr>
<tr>
<td>3 - 37 Sand &amp; gravel.</td>
<td></td>
</tr>
<tr>
<td>37 - 46 Sand.</td>
<td></td>
</tr>
<tr>
<td>46 - 58 Sand with scattered Charlotte S. Maclay gravels imbedded Owner: Charlotte S. Maclay Address: Loja, Montana</td>
<td></td>
</tr>
<tr>
<td>58 - 67 Sand &amp; gravel imbedded in ten clay.</td>
<td></td>
</tr>
<tr>
<td>67 - 72 Fine sand.</td>
<td></td>
</tr>
<tr>
<td>72 - 75 Coarse sand &amp; gravel. Seeps of water.</td>
<td></td>
</tr>
<tr>
<td>75 - 79 Clean Coarse gravel. Water.</td>
<td></td>
</tr>
</tbody>
</table>

Driller: Liberty Drilling Co. Address: Missoula, Montana

Date of Notice of Appropriation of Groundwater: Non-filed

Date well started: Nov. 18, 1964
Date well completed: Nov. 20, 1964

Type of well: Drilled
Equipment Used: Cable Tool
(Dug, driven, bored or drilled)

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

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

**PERFORATIONS**

<table>
<thead>
<tr>
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<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6 5/8 OD by 3/4&quot;</td>
<td>+1½</td>
<td>79</td>
<td>NONE</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 7½ feet

Shut-in Pressure for Flowing Well: Non-flowing

Pumping Water Level: 30 feet at 50 gallons per minute.

Discharge in gal. per min. of flowing well: Non-flowing

How Tested: Airlift pump Length of Test: 4 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation.) All water is entering the well through the open bottom of the six inch casing.

Bottom of hole 79 feet

Show exact depth of bottom.

Static Water Level for non-flowing Well: 7½ feet

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Pumping Water Level: 30 feet at 50 gallons per minute.

Discharge in gal. per min. of flowing well: Non-flowing

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Bottom of hole 79 feet

Show exact depth of bottom.

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Discharge in gal. per min. of flowing well: Non-flowing

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Pumping Water Level: 30 feet at 50 gallons per minute.

Discharge in gal. per min. of flowing well: Non-flowing

How Tested: Airlift pump Length of Test: 4 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation.) All water is entering the well through the open bottom of the six inch casing.

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