STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk
Recorder of Garfield County, State of Montana
this the day of , 19.

A. D. in at o'clock A. M.

County Clerk and Recorder

By

Depository

Two Pd. $2.00
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

C.G. Glasscock and C.G. Glasscock, Jr., of P. O. Box 419, Miles City,
County of Custer, State of Montana,
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

1. The beneficial use on which the claim is based:
   watering livestock

2. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   Has been used continuously for more than fifteen years.

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

4. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof:
   No irrigation

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

6. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater (more than fifteen years prior to making this declaration but exact date unknown):

7. The depth of water table:
   Unknown

8. The depth of water table:
   Unknown

9. The estimated amount of groundwater withdrawn each year:
   Unknown, but pumps 6 gallons per minute

10. The log of formations encountered in the drilling of each well if available:
    Appropriator knows of no log formations, as well was drilled before present owner purchased land.

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

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
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana
this 10 day of October

H. D. J. 2112, 19110

Charles E. Ferguson
County Clerk and Recorder

Marjorie Jones
Deputy

Paid 5.200
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STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. OLGA E JORDAN, of Crook Rock, Miles City

County of GARFIELD
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: LIVESTOCK WATER

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

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: WINDMILL & GAS ENGINE. SUCK ST.

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: ABOUT 110' BELOW SURFACE

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: DRILLED- 4" CASING 250' DEEP. 2 1/2" PUMP CYL. 1 1/4" PUMP PIPE

10. The estimated amount of groundwater withdrawn each year: 525,000 GALLONS

11. The log of formations encountered in the drilling of each well if available: NO LOG 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 records

Signature of Owner: OLGA E JORDAN
Date: DEC 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; Triplet 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)

John B. Jordan, of Rock Springs

County of Garfield, 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: Livestock WATER

3. Date or approximate date of earliest beneficial use, and how continuous the use has been: 1940 - 6 MONTHS PER YEAR

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 10 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: [Space for details]

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: REG. PUMP - GAS ENGINE 1940 TO 1952 - 1953 TO 1963

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

8. The depth of water table: 110'

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: REG. PUMP - GAS ENGINE - DRILLED

10. The estimated amount of groundwater withdrawn each year: 777,600 Gallons

11. The log of formations encountered in the drilling of each well if available: 110 TO 130 CLAY WITH SEVERAL VEINS OF COAL - 131 TO 145 SAND - 146 TO 160 CLAY

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

Signature of Owner: John B. Jordan

Date: Dec 30, 1955

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

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

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

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 30th day of November,
A. D. 19__

[Signature]
County Clerk and Recorder

By [Signature]
Deputy

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

1. Jay DeLong Island
   (Name of Appropriator)
   (Address)
   (Town)

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

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 5 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:
   (None)

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1961

8. The depth of water table: 140

9. So far as is may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: 140' 6' casing

10. The estimated amount of groundwater withdrawn each year: 100,000

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: Jay DeLong Island
Date: Jan. 31, 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.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

OLGA E. JORDAN
County of: GARFIELD
Name of Appropriator
State of: MONT
Address
Town

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

1. Name of Appropriator
2. Name of Town

3. The beneficial use on which the claim is based: Livestock Water

4. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1935 Continuous Mostly Winter

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

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: None

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: 40' Below Surface

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Drilled - 4' Casing

10. The estimated amount of groundwater withdrawn each year: 560,000 Gallons

11. The log of formations encountered in the drilling of each well if available: No Log 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 Recorded Records

Signature of Owner: Olga E. Jordan
Date: Dec 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.
STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,

By

County Clerk and Recorder

Deputy

Cash Paid $ 2.00.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Our Name of Appropriator: GLENN JORDAN
our Address: P.O. Box 954, Miles City, MT 59301

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

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

3. Date or approximate date of earliest beneficial use, and how continuous the use has been: APRIL 1

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 1.0 G.P.M.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: NO

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1944 WELL 1957 REA

8. The depth of water table: 30' BELOW SURFACE

9. So far as it may be available, the type, size, and depth of each well or the general specifications of any other works for the withdrawal of groundwater: DRILLED 4" CASING 60' DEEP

10. The estimated amount of groundwater withdrawn each year: 365,000 GALLONS

11. The log of formations encountered in the drilling of each well if available: 178' SANDY SOIL 31' TO 21' CLAY 31' TO 40' GRAVEL 41' TO 60' CLAYISH SANDSTONE

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 RECORDED RECORDS

Signature of Owner: 
Date: DEC. 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.
STATE OF MONTANA
County of Co. Field

Filed in the office of the County Clerk and
Recorder of C. N. 14 County, State of Montana
this 20 day of _

R. D. No. 8

County Clerk and Recorder

By: 

Deputy

File No.

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

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

1. OLGA E JORDAN
   of CROW ROCK MILES CITY
   (Name of Appropriator)
   (Address)
   (Town)
   County of GARFIELD
   State of MONT.
   (County)
   (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: HOUSEHOLD USE

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

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 2,000 GALLONS DAILY

   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: REE PUMP SW.1/4, SE.2 T.15 N R.44 E

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: WELL 1920 REE PUMP 1935

   8. The depth of water table: 38' 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: DUG WELL = 4 FT CONCRETE + STEEL

   10. The estimated amount of groundwater withdrawn each year: 365,000 GALLONS

   11. The log of formations encountered in the drilling of each well if available: 17 TO 15 SANDY SOIL
       16 TO 25 SAND ROCK + CLAY
       34 TO 30 GRAVEL
       37 TO 37 SAND ROCK

   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 RECORDED RECORDS

   Excellent Drinking Water.

   Signature of Owner: OLGA E JORDAN
   Date: DEC 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 Appropiator.
STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, the 20th day of April, 1970.

[Signature]
County Clerk and Recorder

[Signature]
Deputy
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. OLGA E. JORDAN 2. The beneficial use on which the claim is based. Livestock Water
Office of State Engineer

County of GARFIELD 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. Livestock Water

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 10 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. None

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. PUMP ENGINE 1950 TO 54 - REAS 4763 NEW SEC. 25 - T. 15N. R. 44E

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. 25' BELOW SURFACE

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. DRILLED 20' L.C. CASING 50' DEEP

10. The estimated amount of groundwater withdrawn each year. 160,000 GALLONS

11. The log of formations encountered in the drilling of each well if available. OTO 10' CLAY 17 TO 40' CLAY 41' TO 48' CLAY

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. NO RECORDED RECORDS. SUPPLY UNLIMITED GOOD LIVESTOCK WATER

Signature of Owner. OLGA E. JORDAN

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
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(As of January 1, 1962)

1. John B. Jordan, of Rock Springs, 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 is livestock and residential use.

3. Data or approximate date of earliest beneficial use, and how continuous the use has been: 1935, DAILY.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 20 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: 10 ACRES.

6. The means of withdrawing such water from the ground and the location of each well or other works for withdrawal of groundwater: 1954 REA + JET PUMP.

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

8. The depth of water table: 80'

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: 245' DEEP.

10. The estimated amount of groundwater withdrawn each year: 800,500 GALLONS.

11. The log of formations encountered in the drilling of each well if available: 1 TO 200 CLAY WITH INTERMITTENT COAL, 20 TO 230 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: NO RECORDED RECORDS.

Signature of Owner: [Signature]
Date: [Date]

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

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

STATE ENGINEER
(Under Chapter 237, Montana Session Laws, 1961)

1. **John B. Jordan**, of **Rock Springs**
   (Name of Appropriator) (Address)
   County of **GARFIELD** State of **MONT**

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **1946**
   5 WINTER MONTHS PER YR 1946-1953

4. The amount of groundwater claimed (in miner's inches or gallons per minute): **6 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:
   **NO REG PUMP GAS ENGINE 1946 TO 1954**
   **REA 54 TO 63**

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **1946**

8. The depth of water table: **110'**

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 4' CASING 2½' CYL. = 150' DEEP**

10. The estimated amount of groundwater withdrawn each year: **518,400 GALLONS**

11. The log of formations encountered in the drilling of each well if available:
   **1 TO 100' CLAY WITH INTERMITTENT LAYERS OF COAL**
   **110 TO 130' SANDS 131 TO 150' CLAY**

12. Such other information of a similar nature as may be needed in connection with the sale, exchange, or leasing of this set, including reference to books and parts of any mineral royalty records, covering the water and the location of the water well or other means of withdrawal:
   **VERY LIMITED SANDS POOR QUALITY**

Signature of Owner: **John B. Jordan**

Date: **Dec 31, 1977**

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

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

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 30 day of Dec.

A.D. 1863

A. M.

County Clerk and Recorder

Received

Deed Filed $2.00

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

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

1. OLGA E JORDAN, of CRAWFORD, MILES CITY
   (Name of Appropriator) (Address) (Town)

   County of GARFIELD, 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: LIKESOCK WATER

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1964 - CONTINUOUSLY

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: PUMP WINDMILL
   N.E. 35' SEC. 28 T.16 R. 44 E.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1924

8. The depth of water table: 14 FEET BELOW SURFACE

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: DUG WELL 41' CASING 7' DEEP

10. The estimated amount of groundwater withdrawn each year: VARIOUS AMOUNTS - 365,100

11. The log of formations encountered in the drilling of each well if available: 1 TO 16' CLAY - SAND
   17 TO 21' 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: NO RECORDED RECORDS

Signature of Owner: OLGA E JORDAN
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
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this ___ day of ____, 19__.

A.D. 16 ___ at ___ o'clock ___ M.

[Signature]
County Clerk and Recorder

By, [Signature]
Deputy

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

J. D. Singleton
(Name of Appropriator)

of Crow and Melody, Mont.

(Town)

County of

Montana

State of

May have appropriated groundwater according to the Montana laws in effect prior to January 1, 1963, as follows:

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

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

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

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

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

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

7. The depth of water table.

8. The estimated amount of groundwater withdrawn each year.

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

10. 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

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
STATE OF MONTANA
County of

Filed in the Court of the County
Recorder of Clark County, State of Montana, this ___ day of ___
A.D., ___.

Signed
County Clerk and Recorder
By
Deputy

Fee Paid $___

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

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

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<th>File No.</th>
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<table>
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<tr>
<th>County of</th>
<th>State of</th>
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<tbody>
<tr>
<td></td>
<td>Montana</td>
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</tbody>
</table>

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

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

4. The amount of groundwater claimed (in minor'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 upon which 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, age, and date 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 connection with the policy of this act, including reference to book and page of any county record:

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

Filed in the office of the County Clerk and
recorder of Gallatin County, State of Montana,
this 21 day of June, 1962,

A. D. 1962

Mishti P. Peterson
County Clerk and Recorder

Married 12-22-30

Fee Paid $2.00

[Signature]

[Signature]
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

2nd Tuesday

3rd Thursday

4th Thursday

(Names of Appropriate)

Address)

County of________________________

State of________________________

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

1. Name of Appropriate: Otto Finkler

Address: Crow Rock Route, Miles City

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

Stock water and household use

3. Date or approximate date of earliest beneficial use: and how continuous the use has been: 1942 - continuous use since.

4. The amount of groundwater claimed (in miner's inch or gallons per minute): 8 gallons per minute.

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

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

Electric pump and windmill

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:

40 feet from top of well

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:

30 feet deep, 4-inch casing

10. The estimated amount of groundwater withdrawn each year:

750,000 gal.

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

Not available

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

No record other than this

Signature of Owner: Otto Finkler

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 Appropriate.
DECLARATION OF VESTED GROUNDWATER RIGHTS

UNDER CHAPTER 237, MONTANA SESSION LAWS, 1961

1. Jay Dee Landgraf
   County of: Decker
   State of: Mont.
   Address: 
   Town: 
   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
      Stockwell

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been
      1960
      6 months

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

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
      1960

   8. The depth of water table
      240

   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
      44.04 ft. 1 x 4

   10. The estimated amount of groundwater withdrawn each year
      100,000

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

   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
      Monk

Signature of Owner

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.
<table>
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<th>Type of Form</th>
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Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Date of Notice of Appropriation of Groundwater

Date well started

Date Complete

Type of well

Equipment Used

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>Site and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
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<td></td>
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</table>

Static Water Level for non-flowing Well

Shut-in Pressure for Flowing Well

Pumping Water Level

Discharge in gal. per minute

How Tested

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.

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appraiser.
MONTANA STATE ENGINEER
WELL DRILLER'S REPORT

Owner of Well: Lou Hill

Exact Location of Well: S.W. S.E. Sec. 27, Twp. 64 N., R. 128 E.

Water to Be Used for: Irrigation

Drilling Begun: July 11, 1960
Well Finished: July 22, 1960

Well Sealed: Date: July 22, 1960

Type of Seal: Cemented casing

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.

Water Pressure at Top of Ground: 20 pounds per sq. in.

<table>
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<th>Casing Record</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>----------------</td>
</tr>
<tr>
<td>11&quot;</td>
</tr>
<tr>
<td>77&quot;</td>
</tr>
</tbody>
</table>

Describe the type of joints in casing.

Type of drilling machine: Kalthofer Industries, 20,000 rpm

Describe any screens used.

Describe any grouting or cement work giving location and amount.

Flowing capacity of well: 100 gph per minute

How determined: Static gauge, Thakum5 minutes

Date water sample sent to State Board of Health:

STATE OF MONTANA,

County of: [County]

being first duly sworn, deposes and says that he is the well driller named above, that he has read the above report, and that the same is true of his own knowledge.

Subscribed and sworn to before me this __ day of __, 19__.

Show exact depth of bottom of hole. (See side for copy of the law.)
Declaration of Vested Groundwater Rights

(Under Chapter 287, Montana Session Laws, 1961)

1. Lou Hill
   (Name of Appropriator)
   of ______________________
   (Address)
   (Town)
   County of Garfield
   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 & Irrigation

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 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
   40 acres in SW 1/4 Section 27 T. 38 N. R. 39 E.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater... July 11, 1962 and completed July 20, 1962.

8. The depth of water table... 2100 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... 1. 3/4 inch pipe, 16 ft casing, and 2,286 ft deep...

10. The estimated amount of groundwater withdrawn each year... would vary

11. The log of formations encountered in the drilling of each well if available... 60.0 feet Kosby 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... This well was originally drilled for an oil well being a dry hole, it is being used for stock water and Irrigation.

   Well drilled by Cardinal Petroleum Company of Billings, Montana

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
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 7/1 day of 1967.

A. D. 1967 7/1

County Clerk and Recorder
By Deputy

Due fee $2.00
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Marcus Frontash, 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

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

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

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

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

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

8. The depth of water table

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

10. The estimated amount of groundwater withdrawn each year

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

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

Signature of Owner

Date

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Approprietor.
STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this ___ day of ___, 20__.

A. D. 19

__________________________
County Clerk and Recorder

__________________________
Deputy

For Pages ______

[Signature]

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

1. Marcus Matney, of Rosby
   (Name of Appropriator) (Address) (Town)

   County of Garfield, State of Montana
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1963, as follows:

2. The beneficial use on which the claim is based.  
   Home & Stock

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

4. The amount of groundwater claimed (in minor's inches or gallons per minute).  
   Pump 10 gals/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.  
   5 acres, owned by

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

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

8. The depth of water table.  
   4 ft. 12 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.  
   1/2 horse, electric pump

10. The estimated amount of groundwater withdrawn each year.  

11. The log of formations encountered in the drilling of each well if available.  
   12 ft. top, sand, surface water

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: Marcus Matney
Date: Dec 21, 1963

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

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

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

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
the 31st day of April, A.D. 1863, at 11 o'clock in the
morning of the 31st day of April, 1863.

County Clerk and Recorder

[Signature]

Deed Book 2, Page 734

[Stamp]
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Marcus Malovich of Mosby
   County of Hardin, 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 inch or gallons per minute)

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

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: Marcus Malovich
Date: Jun 20, 1964

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 Appropirator.
STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana,
the day of , 19

County Clerk and Recorder

Deed Record 200
Vol. 735 Page 7394
## Groundwater Index

**County**: Garfield  
**Twp.**: 14  
**Rge.**: 31A

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
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<tr>
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<td>CA</td>
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</tr>
</tbody>
</table>
November 17, 1969

Mexh Conservation Board
Water Resources Engineer
Sam W. Mitchell Bldg.,
Helena, Montana 59601

Dear Sir:

Enclosed you will find copies of Release Agreements for utilization of fresh water wells.

1. Robert M. Watkins Engineering
   Petrol Industries, Inc.
   Petrol-Ranaud #1 N.P. (Northern Pacific Lease)
   Section 21, Twp. 14 North, Rge. 36 W.

2. Pan American Petroleum Corporation
   State of Montana No.
   Section 16, Twp. 36 N., Rge. 36 W.

Yours very truly,

Norman J. Beauchy
Executive Secretary

Oil and Gas Conservation Commission

Dated: October 27, 1969
THESE PRESUMPTIVELY AUTHENTICATED DOCUMENTS ARE HEREBY SUBMITTED TO THE OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF MONTANA, FOR THEIR CONSIDERATION AND APPROVAL, WITH THE FOLLOWING NOTICED PROVISIONS:

I, Lou E. Hill, of the County of Garfield, in the State of Montana, do hereby notify the Oil and Gas Conservation Commission of the State of Montana of my desire to utilize said well as a fresh water well, and that if such utilization is approved, I do hereby release and discharge the operator hereinabove named from any further work or responsibility in relation to the plugging of said well.

Water Use:  Domestic _____ Municipal _____ Stock X Other _____  
Industrial _____ Drainage _____ Irrigation _____

Producing Depth 1750 feet  Producing Formation 1st Cat Creek
Yield of well 30 gals./min.  Annual Withdrawal _____________

WITNESS my hand and seal this _______ day of October, 19 69

[Signature]  (L.S)  
Landowner - Lou E. Hill
Address _____________  
Mosby, Montana

IN THE PRESENCE OF:

[Signature]  
Address _____________  
Mosby, Montana

APPROVED BY:

Oil and Gas Conservation Commission

[Signature]  (L.S)  
Petroleum Engineer, Geologist, or Executive Secretary

Dated: _____________, 19 69

[Signature]  (L.S)  
Petroleum Engineer, Geologist, or Executive Secretary

Dated: _____________, 19 69
<table>
<thead>
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<th>Sec.</th>
<th>Name of Appropriator</th>
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<th>Remarks</th>
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WATER WELL LOG

Owner: G. A. Caster
Address: Winnetka, Ill.

Driller: W. Munson
Address: Grass Range, Mont.

Date Started: Apr. 8, 1961
Date Completed: Apr. 9, 1961

Location: Sec. 4 T. 14 R. 32 ½ sec. NE SE

Type of well: Drilled
Equipment used: Rotary

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

Casing: 0 ft. to 183 ft. Type: Concrete Size: 4½" T.D.

Casing: ______ ft. to ______ ft. Type: ______ Size: ______

Casing: ______ ft. to ______ ft. Type: ______ Size: ______

Perforated or Screened: Ft. 164 to Ft. 180. Ft. ______ to ______

Type of screen or perforations: Regular

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

Shut-in pressure, for flowing well: ______ lb./sq. in. on: ______

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

How tested: Bail ing

Length of test: ______

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

Cave Catcher @ 160

(over)
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<th>From</th>
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<td>183</td>
<td>Shaley Sand T.D.</td>
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</table>
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1913

Owner: Northern Pacific Railway Company
Address: St. Paul, Minn.

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.

Spring, used since 1913.

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.

Spring flows 8-10 gallons per minute, measured over a period of time.

Henry White, District Supervisor, Graz. and Cult.
Date: DEC 14 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; Quadruplicate for the Appropriator.
STATE OF MONTANA}
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana
this 10 day of ___
A.D. 1943 at ___ P.M.

CHARLES P. LONGWORTH
County Clerk and Recorder

For bill & Ex. 

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

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

Northern Pacific Railway Company, Office Bldg., St. Paul, Minn.
(Name of Appropriator)
(Address)
(Town)
County of Ramsey
State of Minnesota

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

1. The beneficial use on which the claim is based:
   
   Pumping water for livestock.

2. Date or approximate date of earliest beneficial use:
   
   Continuous since 1880.

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

4. If used for irrigation, give the average and description of the land to which water has been applied and state of the water in the ground at the beginning of the use:
   
   No land irrigated.

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

6. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   
   Drilled in 1931.

7. The depth of water table:
   
   50 feet.

8. The estimated amount of groundwater withdrawn each year:
   
   No log available.

9. The log of formations encountered in the drilling of each well:
   
   No log available.

10. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
    
    Drilled in 1931.

11. The estimated amount of groundwater withdrawn each year:
    
    No log 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 other information available.

Northern Pacific Railway Company
Signatures of Owner and Officer:

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
County of Garfield

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana.

A.D. 19__
This ______ day of ______

County Clerk and Recorder
Deputy

Recd Paid $0.00

FILED

[Signature]
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1932)

Date of Appropriation of Groundwater

Owner: Name, Pac, Ry, Co, Address, City, State.

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. Springs, used since 1930.

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. Springs, used 1 gallon per minute, measured over a period of time.

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

Northern Pacific Railway Company

Signature of Owner

Dist. Superviser, Grax. & Cult.

Date

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.
STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County. State of Montana

D. 10, 6B. 1430, 19

County Clerk and Recorder

Fee Paid $2.00

County of

131

124627
<table>
<thead>
<tr>
<th>Owner</th>
<th>Bruce Patton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>Harvey McConnell</td>
</tr>
<tr>
<td>Date Started</td>
<td>6/18/59</td>
</tr>
<tr>
<td>Date Completed</td>
<td>7/25/61</td>
</tr>
<tr>
<td>Location: Sec.</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>T. 1/4</td>
</tr>
<tr>
<td></td>
<td>R. 32</td>
</tr>
<tr>
<td></td>
<td>1/4 sec.</td>
</tr>
</tbody>
</table>

- **Type of well:*** drilled  
- **Equipment used:*** cable
  - (Churn drill, rotary, other)

- **Water use:*** Stock
- **Type of well:** (Dug, driven, bored, or drilled)
- **Equipment used:** cable
  - (Churn drill, rotary, other)

- **Casing:**
  - 0 ft. to 155 ft.
  - 155 ft. to 300 ft.
  - 300 ft. to
- **Type:** Galvanized
- **Size:** 6 inch

- **Perforated or Screened:**
  - Ft. 25 to Ft. 35
  - Ft. 110 to Ft. 120

- **Type of screen or perforations:** slotted

- **Static Water level, for non-flowing well:** 30 ft. to top

- **Shut-in pressure, for flowing well:** 100 lb./sq. in. on:

- **Pumping water level:** 59 gal. per min.

- **How tested:** Water test
- **Length of test:** 30 minutes

- **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 – 25</td>
<td>Top soil</td>
</tr>
<tr>
<td>25 – 30</td>
<td>Sandy clay (some gravel)</td>
</tr>
<tr>
<td>30 – 110</td>
<td>Blue shale</td>
</tr>
<tr>
<td>110 – 115</td>
<td>Blue shale with sand stringers (contains water)</td>
</tr>
<tr>
<td>115 – 155</td>
<td>Blue shale</td>
</tr>
</tbody>
</table>
## WATER WELL LOG

**Owner:** Dutton  
**Address:** Sand Springs, Montana

**Driller:** Luhman Bros.  
**Address:** Miles City, Montana

**Ex Started:** 7/12/46  
**Date Completed:** 7/13/46

**Location:** Sec. 22  
**T. 11  
**R. 22  
**Sec. 11

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Rotary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water use:</td>
<td>Domestic</td>
<td>Municipal</td>
<td>Stock</td>
</tr>
<tr>
<td>Casing:</td>
<td>0 ft. to 200 ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>Ft. 180 to ft. 200</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Type of screen or perforations:</td>
<td>holes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Static water level, for non-flowing well: | 50 feet  
| Shut-in pressure for flowing well: | lb sq. in. |
| (date) |
| Pumping water level: | feet at | 10 gal. per min. |
| How tested: | baller |
| Length of test: | |
| Remarks: | (Gravel packing, casing, packer, type of shut-off, depth of shut-off) |

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>30</td>
<td></td>
<td>Sandy top soil</td>
</tr>
<tr>
<td>30</td>
<td>42</td>
<td></td>
<td>Shale</td>
</tr>
<tr>
<td>42</td>
<td>53</td>
<td></td>
<td>Rock</td>
</tr>
<tr>
<td>53</td>
<td>57</td>
<td></td>
<td>Shale</td>
</tr>
<tr>
<td>57</td>
<td>58</td>
<td></td>
<td>Rock</td>
</tr>
<tr>
<td>58</td>
<td>108</td>
<td></td>
<td>Rocky shale</td>
</tr>
<tr>
<td>108</td>
<td>110</td>
<td></td>
<td>Hard rock</td>
</tr>
<tr>
<td>110</td>
<td>189</td>
<td></td>
<td>Blue shale</td>
</tr>
<tr>
<td>189</td>
<td>200</td>
<td></td>
<td>Water sand</td>
</tr>
</tbody>
</table>