State of Montana  
Administrator of groundwater Code  
Office of State Engineer  

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Law 1962)  

1. **Max. O. O. E.** (Name of Appropriator)  
   **Ravine, M. E.** (Address)  
   **of. Montana** (Town)  
   **of. Montana** (County)  
   **of. Montana** (State)  

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

<table>
<thead>
<tr>
<th>Block</th>
<th>Water Use</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

   **Irrigation. Stack...Wells.**

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

   **1948.**

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

   **10 G.A.M. PER. MIN.**

5. **Sec. 5...T...R...S.**  

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

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

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

   **1956.**

7. The depth of water table.  

   **190.**

9. So far as 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 The estimated amount of groundwater withdrawn each year.  

    **150., 200.**

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

    **Sand. Sand. Eagle. 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 count record.

**Signature of Owner:**  
**Date:**  

**Harold L. Robinson**  
**Dec., 30, 1963.**
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

**Owner:** Bureau of Reclamation  
**Address:** Lewistown, Mont.

**Driller:** Joe Johnson  
**Address:** Terry, Mont.

**Date of Notice of Appropriation of Groundwater:** 7/9/66  
**Date Completed:** 7/14/66

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

**Water Use:** Domestic □  
Municipal □  
Other □  
Irrigation □  
Industrial □  
Drainage □  
Stock □

**Strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc.:**
- 0' - 5' Rocks & Sandy Soil
- 5' - 15' Gravel
- 15' - 40' Bentonite
- 40' - 55' Brown Slate
- 55' - 70' Black Shale
- 70' - 95' Blue Sandstone
- 95' - 105' Gray Sandstone
- 105' - 110' Gray Sandstone
- 110' - 125' Dr Gray Sandstone
- 125' - 130' Dr Gray Shale
- 130' - 161' Dr Gray Shale

**Indicate on the diagram the character and thickness of the different 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</th>
<th>To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 3/4&quot;</td>
<td>6 5/8&quot;</td>
<td>0'</td>
<td>162'</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing Well**: 91 feet

**Shut-in Pressure for Flowing Well**: not applicable

**Pumping Water Level**: 95 feet at 365 gpm

**Discharge in gal. per min. of flowing well**: not applicable

**How Tested**: Bailer  
**Length of Test**: 145

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

- Packers at 93' 50' 10'

**Driller's License Number**: 154

**Driller's Signature**: [Signature]

---

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriate.
<table>
<thead>
<tr>
<th>Water use:</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
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</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>4.25 ft. to 5.00 ft.</td>
<td>Type:</td>
<td>Size:</td>
<td></td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>320 feet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb./sq. in. on: (date)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>120 feet at</td>
<td>40 gal. per min.</td>
<td></td>
<td></td>
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<tr>
<td>How tested:</td>
<td>Leaking</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of test:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
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<td>134</td>
</tr>
<tr>
<td>134</td>
<td>136</td>
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<td>141</td>
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<td>408</td>
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<tr>
<td>408</td>
<td>435</td>
</tr>
<tr>
<td>Sec.</td>
<td>Name of Appropriator</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>8</td>
<td>Nebraska Seedling Co.</td>
</tr>
<tr>
<td>15</td>
<td>&quot;</td>
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<tr>
<td>24</td>
<td>&quot;</td>
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<tr>
<td>24</td>
<td>Goffin, Jaron, I.</td>
</tr>
<tr>
<td>24</td>
<td>Nebraska Seedling Co.</td>
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<tr>
<td>32</td>
<td>Allison, E. J.</td>
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<tr>
<td>33</td>
<td>Nebraska Seedling Co.</td>
</tr>
<tr>
<td>33</td>
<td>&quot;</td>
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</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Nebraska Feeding Company
(Name of Appropriator)
701 Livestock Exch. Bldg., Omaha
(Address)
Douglas
(Town)
Nebraska
(State of)

County of

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

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

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 6 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 not applicable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   Pumped by windmill
   location NE ¼, SE ¼, T 11N, R 27E

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   Construction began May 28, 1961 and completed June 4, 1961

8. The depth of water table 45 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
   6 in., casing 351 feet deep

10. The estimated amount of groundwater withdrawn each year 540,000 gal.

11. The log of formations encountered in the drilling of each well if available
   0-2 gumbo 2-8 brwn. shale; 8-26 blue shale; 26-30 blue shale and sandy clay; 30-75 grey shale; 75-91 grey shale; 90-203 grey shale with bitulite, 202-260 blue sandstone; 260-276 blue sand shale; 276-304 blue sandstone and shale; 304-312 grey shale; 312-335 blue grey sand; 335-340 grey sandy shale; 340-351 dark shale.

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 is well number 12 as is listed on the Nebraska Feeding Company map that is in the possession of the ranch foreman.

Signature of Owner

Date June 22, 1962

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater:

Owner: Nebraska Feeding Co.  
Address: 702 Livestock Exch.  
Omaha, Neb.

Contractor (if any):  
Address of Contractor:  
Date Started:  undetermined early date

Date Completed:

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

- natural flow from ground into coulee; spring is cleaned out periodically by reach hands.

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:

- Flow of water used is about 3 gallons per minute  
  as estimated by eye of ranch foreman. Water used each year as stock water.

Signature of Owner:  
Date: July 2, 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 School of Mines and quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Nebraska Feeding Company, of 701 Livestock Exch. Bldg., Omaha, Douglas County, State of Nebraska, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

2. The beneficial use on which the claim is based

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

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

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

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

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

8. The depth of water table

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

10. The estimated amount of groundwater withdrawn each year

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

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

Signature of Owner

Date

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
Dear Sir:

Enclosed you will find a copy of a Release Agreement for the utilization of a fresh water well.

Operator: B G & O Company
Lease Name: Hall - N. P.
Well No. 1-24, Sec. 24, T10N, R27E
The well is located 1980 feet south of the North line and 2334 feet west of the East line.

Yours very truly,

[Signature]

N. J. Beaudry
Executive Secretary

Enclosure

cc: Mr. E. W. Vond
Bureau of Mines and Geology
Butte, Montana 59701

Oil and Gas Conservation Commission
Petroleum Engineer, Geologist, or Executive Secretary

Dated: JAN 15 1970

[Signature]
OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA

RELEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS, that I, JEROME T. GOFFMAN
of the County of Musselshell in the State of Montana, am the owner of the hereinafter described land upon which a well for oil or gas was drilled, to-wit:

Operator

Lease Name

Well No. 1-24 Sec. 24 Twp. 10N Rge. 27E

The well is located 1980 feet of the North line and 2334 feet of the East line.

That, in accordance with Regulation 233.6, Order No. 1-1, November 30, 1953, I 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 hereinafore named from any further work or responsibility in relation to the plugging of said well.

Water Use: Domestic ___ Municipal ___ Stock ___ Other ___

Industrial ___ Drainage ___ Irrigation ___

Producing Depth 500-600 Producing Formation Eagle

Yield of well _____________ Annual Withdrawal _____________

WITNESS my hand and seal this ___ day of _____________, 19__.

JEROME T. GOFFMAN (L.S)

Address: P. O. Box 557

Roundup, Montana

IN THE PRESENCE OF:

Margaret Gofer Address: Roundup, Mont.

Denny Paterson Address: Roundup, Mont.

APPROVED BY:

Oil and Gas Conservation Commission

Petroleum Engineer, Geologist, or Executive Secretary

Dated: JAN 13 1970

Dated: ___ 19__
General Rules and Regulations
Order No. 1-2, Nov. 30, 1953
Regulation 233-6

WELLS USED FOR FRESH WATER

When the well to be plugged may safely be used as a fresh water well, and such utilization is desired by the landowner, the well need not be filled above the required sealing plug set below fresh water; provided, that written notification of such utilization is secured from the landowner and filed with the Commission. Approval by the Petroleum Engineer of the work done shall relieve the operator of further responsibility.
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
Owner: Nebraska Feeding Co
Address: 701 Livingston, Ench
Gaza, Nebraska
Contractor (if any) none
Address of Contractor none
Date Started: undetermined early date
Date Completed: Date

Describe means of obtaining groundwater without a well "as by
sub-irrigation and other natural processes". Include depth to
water, if applicable. Natural flow from ground into
a dam; spring cleaned out periodically by ram
heads.

Quantity of water developed and used with explanation of method
used to measure or estimate such amount. If use is intermit-
tent estimate approximate lengths of periods of use
Flow of water is estimated to be about 3 gallons per
minute as estimated by eye of ranch foreman. Water
used each year as stock water.

Signature of Owner
Date: July 2, 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
School of Mines and quadruplicate for the Appropriator.
RELEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS, that I, E. S. Ellenson

of the County of Musselshell in

the State of Montana, am the owner of the hereinafter described land upon which

a well for oil or gas was drilled, to-wit:

Operator McAlester Fuel Company

Lease Name C. H. Hall Estate

Well No. 32-3 Sec. 32, Twp. 11 N., Rge. 27 E.

The well is located 330 feet S of the North

line and 2352 feet W of the West line.

That, in accordance with Regulation 233.6, Order No. 1-1, November 30,

1953, I 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

hereinafore 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 [ ] Producing Formation Eagle [ ]

Yield of well [ ] Annual Withdrawal [ ]

WITNESS my hand and seal this 29th day of September, 1971.

[Signature]

Address [ ]

LANDOWNER

IN THE PRESENCE OF:

[Signature]

Address [ ]

APPROVED BY:

Oil and Gas Conservation Commission

[Signature]

Petroleum Engineer, Geologist, or Executive Secretary

Dated: SEP 3 1971

MONTANA WATER RESOURCES BOARD

RECEIVED

OCT 4 1971

49/177
General Rules and Regulations
Order No. 1-I, Nov. 30, 1953
Regulation 233.6

WELLS USED FOR FRESH WATER

When the well to be plugged may safely be used as a fresh water well, and such utilization is desired by the landowner, the well need not be filled above the required sealing plug set below fresh water; provided, that written notification of such utilization is secured from the landowner and filed with the Commission. Approval by the Petroleum Engineer of the work done shall relieve the operator of further responsibility.
October 1, 1968

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

Dear Sir:

Enclosed you will find a Release Agreement concerning the McAlester Fuel Company’s NP 33-9 well, Section 33, Township 11 North, Range 27 East.

This well has been transferred to the Nebraska Feeding Company, J. B. Harbour, Box 103, Roundup, Montana, to be used as a fresh water well.

Yours very truly,

Norman J. Beaudry
Executive Secretary

NJB/ps
Encl.

MONTANA WATER RESOURCES BOARD
RECEIVED
OCT 2 1968

APPROVED BY:
Oil and Gas Conservation Commission

Petroleum Engineer or Executive Secretary

Dated: 10/20 1968

RECEIVED
JUL 16 1969

OIL AND GAS CONSERVATION COMMISSION
OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA

RELEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS, that I, Nebraska Feeding Company, of the County of Musselshell in the State of Montana, am the owner of the hereinafter described land upon which a well for oil or gas was drilled, to-wit:

Operator — Meleister Fuel Company
Lease Name — N.P.
Well No. — 33-0 Sec. 33, Twp. 11, Rgs. 27
The well is located 2020 feet S of the South line and 425 feet E of the East line.

That, in accordance with Regulation 833.6, Order No. 1-1, November 30, 1953, I 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.

WITNESS my hand and seal this 12 day of July 1968.

Nebraska Feeding Company

Landowner

Address — Box 103
Roundup, Montana

IN THE PRESENCE OF:

B. D. Olson
Address — Winton, Montana

H. T. Landowner
Address — Winton, Montana

APPROVED BY:

Oil and Gas Conservation Commission
Petroleum Engineer or Executive Secretary

Dated: 7-20-1968

RECEIVED
Jul 16 1968

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA
General Rules and Regulations
Order No. 1-1, Nov. 30, 1953
Regulation 233.6

Wells used for fresh water

When the well to be plugged may safely be used as a fresh water well, and such utilization is desired by the landowner, the well need not be filled above the required sealing plug set below fresh water; provided, that written notification of such utilization is secured from the landowner and filed with the Commission. Approval by the Petroleum Engineer of the work done shall relieve the operator of further responsibility.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Name of Appropriator: Nebraska Feeding Company, of 701 Livestock Exch. Bldg., Omaha
   (Address) State of Nebraska

   County of Douglas

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

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

   3. Date of earliest beneficial use; and how continuous the use has been
      August 10, 1960; used each year since

   4. The amount of groundwater claimed (in miner's inches or gallons per minute)
      25 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 not applicable

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
      Pumped by windmill
      Location SENW SE. 33, T.11N, R.27E

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal
      Construction started Aug. 10, 1960 and completed Aug. 9, 1960

   8. The depth of water table
      10 ft.

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
      6 in. casing; depth of well 84 ft.

   10. The estimated amount of groundwater withdrawn each year
      710,000 gal.

   11. The log of formations encountered in the drilling of each well if available
      0-30 ft. gravel, shale
      30-60 ft. gravel
      60-84 ft. shale

   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 is well number 14 as is listed on the map of the Nebraska Feeding Company Ranch that is in the possession of the ranch foreman.

   Signature of Owner
   Nebraska Feeding Company
   Date: June 22, 1962

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
<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>7</td>
<td>Goffena Ranch Co.</td>
<td>5706</td>
<td>165234</td>
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<tr>
<td>13</td>
<td>Goffena, L.M.</td>
<td>5706</td>
<td>165059</td>
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<td>17</td>
<td>Hall, C.W.</td>
<td>GW4</td>
<td>149741</td>
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<td>26</td>
<td>Goffena Brothers</td>
<td>GW4</td>
<td>149813</td>
<td></td>
</tr>
</tbody>
</table>
Form No. 18

T. 11 R. 25

Montana Bureau of Mines and Geology

Received

Butte, Montana

STATE ENGINEER

Water Well Log

Owner

Address

Driller

Address

Date Started

Date Completed

Location: Sec. 11 T. 11 R. 25 4 sec. NE

Type of well

Equipment used

Domestic [ ] Municipal [ ] Stock [ ] Irrigation [ ]

Industrial [ ] Drainage [ ] Other [ ]

Casing: 0 ft. to 40 ft. Type 8 5/8 Size 2 1/4"

Casing: 0 ft. to 90 ft. Type 2 5/8 Size 6"-

Casing: 90 ft. to 100 ft. Type 6" Size

Perforated or Screened: Ft. 90 to Ft. 90 Ft. to Ft.

Type of screen or perforations

Static water level, for non-flowing well: 10 - 15 ft. down feet.

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

Pumping water level 40 feet at 12 gal. per min.

How tested: Sustained

Length of test 6 Min.

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

Cement 40 ft.
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
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<td>0</td>
<td>12</td>
<td>soil</td>
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<td>12</td>
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<tr>
<td></td>
<td>75</td>
<td>90</td>
<td>shale</td>
</tr>
</tbody>
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**WATER WELL LOG**

**Owner:** L. W. Coffena  
**Address:** Roundup, Montana

**Driller:** Carter Oil Co.  
**Date Started:** Oct 1956  
**Date Completed:** Aug 1961

**Location:** Sec. 13, T. 11 R. 28  
**County:** Musselshell

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Standard Oil Rig</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water use:</td>
<td>Domestic</td>
<td>Stock</td>
<td>Irrigation</td>
</tr>
<tr>
<td></td>
<td>Industrial</td>
<td>Drainage</td>
<td>Other</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to 680 ft.</td>
<td>Type heavy</td>
<td>Size 10 3/4</td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>ft. to ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
</tbody>
</table>

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

**Shut-in pressure, for flowing well:** 35 lb./sq. in. on: Aug 1, 1961

**Pumping water level** feet at 2 gal. per min. flow

**How tested:** 5 gal. call & watch

**Length of test:** 2 minutes

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

Cement 0 to 680 ft.

(over)
<table>
<thead>
<tr>
<th>Depth, Feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>sand of Judith River formation</td>
</tr>
<tr>
<td>30</td>
<td>shale of Claggett</td>
</tr>
<tr>
<td>530</td>
<td>upper Eocene sand</td>
</tr>
<tr>
<td>560</td>
<td>shale</td>
</tr>
<tr>
<td>610</td>
<td>lower Eagle</td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

C. H. Hall, of Roundup
County of Musselshell, State of Montana

I 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: Stockwater

3. Date or approximate date of earliest beneficial use, and how continuous the use has been: Natural Flowing - 1850

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 200 miner's inches

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: Natural Flowing Spring

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Natural Spring - 1850 estimated 24

8. The depth of water table: Surface

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

10. The estimated amount of groundwater withdrawn each year: Unknown

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: C. H. Hall
Date: Dec. 31, 1967

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

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

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

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Geffens Brothers
   (Name of Appropriator) of., Res. 527
   (Address) (Town)

   County of Musselshell
   State of Montana

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

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

   2. Date or approximate date of earliest beneficial use; and how continuous the use has been
   1946 - 5 months out of each year

   3. The amount of groundwater claimed (in miner's inches or gallons per minute)
   2 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. Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   pump, with pump, jack, powered with gasoline engine

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of ground water
   1946 - 1946

   8. The depth of water table
   85 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
   driven well with churn, 6 inch galvanized casing to 91 feet

   10. The estimated amount of groundwater withdrawn each year
   90,000 gallons

   11. The log of formations encountered in the drilling of each well if available
   well starts in the Judith River formation, old bottom in the Riegert Shale

   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 count record

   Signature of Owner, Geffens Brothers
   Date December 31, 1963

   20657
<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>7</td>
<td>Griffith, A.W.</td>
<td>57108</td>
<td>165658</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Kester Ranch Co.</td>
<td>GW4</td>
<td>169492</td>
<td></td>
</tr>
</tbody>
</table>
Form No. 18
8-60

T. 11 R. 29

County Musselshell

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>L. V. Goffena</th>
<th>Address</th>
<th>Roundup, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>L. Ferguson</td>
<td>Address</td>
<td>Roundup, Montana</td>
</tr>
<tr>
<td>Date Started</td>
<td>Nov. 1960</td>
<td>Date Completed</td>
<td>Nov. 1960</td>
</tr>
<tr>
<td>Location: Sec. 7 T. 11 R. 29 ½ sec. E ½</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>artesian</th>
<th>Equipment used</th>
<th>churn</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Casing:</th>
<th>0 ft. to 246 ft.</th>
<th>Type</th>
<th>heavy</th>
<th>Size</th>
<th>6&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>220 ft. to 460 ft.</td>
<td>Type</td>
<td>heavy</td>
<td>Size</td>
<td>4&quot;</td>
</tr>
<tr>
<td>Casing:</td>
<td>__ ft. to ___ ft.</td>
<td>Type</td>
<td>____</td>
<td>Size</td>
<td>___</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>Ft. 433 to Ft. 460 ft.</th>
<th>Ft. ___ to Ft. ___</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Type of screen or perforations</th>
<th>_____</th>
</tr>
</thead>
</table>

| Static Water level, for non-flowing well: | ___ feet |
| Shut-in pressure, for flowing well: | 40 lb./sq. in. on: Aug. 1961 |
| Pumping water level: | ___ feet at ___ gal. per min. |

<table>
<thead>
<tr>
<th>How tested:</th>
<th>rail &amp; watch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length of test:</td>
<td>2 minutes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Remarks:</th>
<th>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>226 - 246 cement</td>
</tr>
</tbody>
</table>

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0</td>
<td>To 433</td>
</tr>
<tr>
<td>433</td>
<td>443</td>
</tr>
<tr>
<td>443</td>
<td>460</td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

1. (Name of Appropriator) (Address) (Town)

COUNTY OF: (Address)

STATE OF: (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:

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

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

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

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

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

8. The depth of water table:

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

10. The estimated amount of groundwater withdrawn each year:

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

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

Signature of Owner:

Date:

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

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

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

19743
### Groundwater Index

**County:** Waukegan  
**Twp.:** 11N  
**Rge.:** 30E

<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>9</td>
<td>Junior Oil &amp; Gas Co.</td>
<td>GW2</td>
<td>173467</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>GW1</td>
<td>173129</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>57258</td>
<td>162719</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>BGE Co.</td>
<td>GW2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td></td>
<td>GW2</td>
<td>180540</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td></td>
<td>GW2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td></td>
<td>GW2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Juniper Oil & Gas Co.
Address: 420 C. A. Johnson Bldg.
Denver, Colorado

Driller: Soper Drilling Company
Address: Malstone, Montana

Date of Notice of appropriation of groundwater: November 8, 1965
Date well started: 11/13/65
Date completed: 12/14/65

Type of well: Drilled
Equipment used: Rotary

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

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>
</tr>
</thead>
<tbody>
<tr>
<td>12 3/4&quot;</td>
<td>9 5/8&quot;</td>
<td>Surface 141'</td>
<td>3/8&quot; jets 2395 2401</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7 1/8&quot;</td>
<td>2413 2417</td>
</tr>
<tr>
<td>8 3/4&quot;</td>
<td>7&quot; - 20&quot; Surface 2548'</td>
<td>2433 2435</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>and 23#</td>
<td>2401 2449</td>
</tr>
</tbody>
</table>

N
W
E
S

Static Water Level for non-flowing well
Shut-in Pressure for Flowing Well: 150 psi
Pumping Water Level

Discharge in gal. per min. of flowing well
Flowing: 1025 gal.
Length of Test: 24 hours

Remarks: (Gravel packing, cementing, packers, etc. of shut-off)

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

License No.: 150

Driller's License Number

Driller's Signature
Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

1. I, Juniper Oil & Gas Company, of 420 C. A. Johnson Bldg, Denver, Colorado
   (Name of Appropriator) (Address) (Town)
   County of Denver, State of Colorado, 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 waterflooding the Tyler "A" oil sand to recover oil that would otherwise not be recovered.
   (describe lands to be benefitted, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed:
   58.3 gallons per minute or 2,000 barrels per day

4. The annual period (inclusive dates) of intended use:
   continuous use throughout estimated year life of waterflood
   November 30, 1965

5. The probable or intended date of first beneficial completion of the well:
   November 20, 1965

6. The probable or intended date of commencement of well:

7. The location, type, size and depth of well or wells contemplated:
   NE 1/4 of NE 1/4 of Section 9 T.11N R.30E; 5 3/4" casing set at T.D. (2700 feet)

8. The probable or estimated depth of the water table or artesian aquifer:
   Not applicable

9. Name, address and license number of the driller engaged:
   Space Drilling Company, Malta, Montana, License No. 169

10. Give such other similar information as may be useful in carrying out the policy of this act:
    Form No. 2 of the Oil and Gas Conservation Commission of Montana has been filed with the commission.

   Signature of Appropriator

   Date: November 8, 1965

*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.*
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Device</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>Fred Freeman + Alice Morrison</td>
</tr>
<tr>
<td>Driller</td>
<td>Willman and Morrison</td>
</tr>
<tr>
<td>Date Started</td>
<td>Aug 22-1963</td>
</tr>
<tr>
<td>Date Completed</td>
<td>Dec 14-1963</td>
</tr>
</tbody>
</table>
| Location     | Sec. 25 T. 11 R. 30 1/4
|             | NE 4 NE 7 |
| Type of well | Drilled |
| Equipment    | Rotary |
| Water use    | Stock |
| Casing       | 0 ft. to 600 ft. Type: Steel, Size: 4-1/2 OD. 7 ft. |
| Casing       | 0 ft. to 600 ft. Type: Steel, Size: 7 ft. |
| Casing       | 0 ft. to 600 ft. Type: Steel, Size: 7 ft. |
| Perforated or Screened | 260 ft. to 280 ft. 3/8 to 5/8 |
| Type of screen or perforations | |
| Static water level, for non-flowing well | 50 feet |
| Shut-in pressure, for flowing well | 17 lb/sq. in. on 9:10 (date) |
| Pumping water level | 400 feet at 4 gal. per min |
| How tested | Blasting and pumping |
| Length of test | 35 days |
| Remarks | (Gravel packing, cementing, packers, type of shut-off, depth of shut-off) |

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>1-10</td>
<td>Surface gravel</td>
</tr>
<tr>
<td>10-167</td>
<td>Shale</td>
</tr>
<tr>
<td>17-95</td>
<td>Gray shale - argillite</td>
</tr>
<tr>
<td>95-160</td>
<td>Shale</td>
</tr>
<tr>
<td>160-163</td>
<td>Iron pyritic + thin banded coal</td>
</tr>
<tr>
<td>163-267</td>
<td>Sandstone + Arkose + shale</td>
</tr>
<tr>
<td>267-285</td>
<td>Shale + thin banded coal</td>
</tr>
<tr>
<td>285-302</td>
<td>Carbonaceous shale</td>
</tr>
<tr>
<td>302-310</td>
<td>Shaly sand</td>
</tr>
<tr>
<td>310-387</td>
<td>Gray shale - sandstone</td>
</tr>
<tr>
<td>387-401</td>
<td>Sandy siltstone + thin coal</td>
</tr>
<tr>
<td>401-406</td>
<td>Salt pepper sand (water ind.)</td>
</tr>
<tr>
<td>406-576</td>
<td>Brown shale + sandy siltstone</td>
</tr>
<tr>
<td>576-591</td>
<td>Gray sand + siltstone</td>
</tr>
<tr>
<td>591-823</td>
<td>Shale - sandstone</td>
</tr>
<tr>
<td>823-948</td>
<td>Gray sandstone + green shale + siltstone</td>
</tr>
<tr>
<td>948-969</td>
<td>Green sand</td>
</tr>
<tr>
<td>969-971</td>
<td>White sand - good quality (water))</td>
</tr>
<tr>
<td>971-985</td>
<td>Hard shale embedded</td>
</tr>
<tr>
<td>985-1031</td>
<td>Green shale + gray shale + siltstone</td>
</tr>
<tr>
<td>1031-1037</td>
<td>Shale T.D.</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Date of Notice of appropriation of groundwater...April 8, 1970...
Date well started...December 22, 1969 Date completed...March 20, 1970...

Type of well Drilled...Equipment used...Rotary
(Drag, Driven, bored or drilled)
Water use: Domestic □ Municipal □ Stock □ Irrigation □
(Crush drill, rotary or other)
Industrial □ Drainage □ Other □ Waterflooding
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>Depth of</th>
<th>Size of</th>
<th>Size and</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dakota Silt (3953)</td>
<td>13 3/4&quot;</td>
<td>10 3/4&quot;</td>
<td>0-</td>
<td>298</td>
</tr>
<tr>
<td>First Cat Creek (3160)</td>
<td>9 7/8</td>
<td>7</td>
<td>-0-</td>
<td>5871</td>
</tr>
<tr>
<td>Kootenai (3260)</td>
<td>6</td>
<td>5871</td>
<td>6478</td>
<td></td>
</tr>
<tr>
<td>Second Cat Creek (3422)</td>
<td>13 3/4&quot;</td>
<td>10 3/4&quot;</td>
<td>0-</td>
<td>298</td>
</tr>
<tr>
<td>Third Cat Creek (3550)</td>
<td>10 3/4&quot;</td>
<td>0-</td>
<td>5871</td>
<td></td>
</tr>
<tr>
<td>Morrison (3580)</td>
<td>6</td>
<td>5871</td>
<td>6478</td>
<td></td>
</tr>
<tr>
<td>Swift (3475)</td>
<td>9 7/8</td>
<td>7</td>
<td>-0-</td>
<td>5871</td>
</tr>
<tr>
<td>&quot;C&quot; Sand (4620)</td>
<td>6</td>
<td>5871</td>
<td>6478</td>
<td></td>
</tr>
<tr>
<td>Otter (4820)</td>
<td>9 7/8</td>
<td>7</td>
<td>-0-</td>
<td>5871</td>
</tr>
<tr>
<td>Ribdon (3925)</td>
<td>6</td>
<td>5871</td>
<td>6478</td>
<td></td>
</tr>
<tr>
<td>Aasden (4205)</td>
<td>9 7/8</td>
<td>7</td>
<td>-0-</td>
<td>5871</td>
</tr>
<tr>
<td>Upper Tyler (4319)</td>
<td>6</td>
<td>5871</td>
<td>6478</td>
<td></td>
</tr>
<tr>
<td>Lower Tyler (4505)</td>
<td>9 7/8</td>
<td>7</td>
<td>-0-</td>
<td>5871</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well
Shut-in Pressure for Flowing Well 350
Pumping Water Level
Discharge in gal. per min. of flowing well
Length of Test 24 Hours
Remarks: (Gravel packing, cementing, packers, type of shutoff)...Open hole completion, no liners or gravel pack.
Recently a copy of a groundwater appropriation form, X
GW 1, Notice of Appropriation of Groundwater
GW 2, Notice of Completion of Groundwater Appropriation by means of Well
GW 3, Notice of Completion of Groundwater Appropriation without Well
GW 4, Declaration of Vested Groundwater Rights (This form is obsolete and was limited by law to use only through 1965)

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

This form is identified by
Owner: Butte Gas and Oil Company
Address: 420 C.A. Johnson Bldg. Denver, Colorado 80202

Location: T. 11 N R. 30 E Sec. 36 Document No. 180540

This is to inform you that your GW form has been received and is complete as filed.

This is a request for additional information if available. Please complete the enclosed copy by providing information where indicated, or as noted here and return the corrected copy to the Montana Water Resources Board in Helena.

X Other.

The appropriator of groundwater by means of a natural flowing water well should be aware that waste of groundwater is prohibited and that "all flowing wells are to be capped or equipped with valves that the flow of water can be stopped when the water is not being put to beneficial use." (Section 89-2926, under Chapter 237, Montana Session Laws, §561).
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner: RECO
Address: Denver, Colorado 80202

Driller: Soape Drilling Co., Inc.
Address: Helena, Montana 59601

Date of Notice of appropriation of groundwater: April 8, 1970

Date well started: December 22, 1969
Date completed: March 20, 1970

Type of well: Drilled
Equipment used: Rotary

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

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.

- Dakota Silt (3053)
- First Cat Creek (3160)
- Kootenai (3260)
- Second Cat Creek (3422)
- Swift (3745)
- Rieldon (3925)
- Piper Shale (4095)
- Piper Limestone (4170)
- Amsden (4205)
- Upper Tyler (4319)
- Bear Gulch (4473)
- Lower Tyler (4509)
- "C" Sand (4620)
- Otter (4820)
- Kibbey (5235)
- Charles (5435)

Doc. No. 120-26
Filed for record this 26th day of May, A.D. 1970, at 8:56 a.m.
Mission Canyon (6037)

Lodgepole (6466)
Show exact depth of bottom.
Total Depth (6478)

State Water Level for non-flowing well
Shut-in Pressure for Flowing Well
Pumping Water Level
Discharge 5 gal. per min. of flowing well
How Tested: Flow into pit
Length of Test: 24 Hours
Remarks: (Gravel packing, cementing, pack-)
End of record

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

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

No. 160
Driller's License Number
Soape Drilling Co., Inc.

Driller's Signature
(4/4/6)
Montana Water Resources Board
Helena, Montana

Attention: Mr. Ronald J. Guse

Gentlemen:

Enclosed is the triplicate copy of the Notice of Appropriation of Groundwater which you returned to us. The original of this instrument was filed with the Clerk and Recorder of Musselshell County on April 27, 1970, in Book 239 at Pages 57 and 58. This original was subsequently returned to us for our files.

By the instructions at the bottom of this form, I assume that this copy was forwarded by the County Clerk to the School of Mines, who perhaps forwarded it to you. We do not believe there is any further action which we need take on this appropriation notice, since we have filed the Notice of Completion of Groundwater Appropriation. If, however, we are mistaken and there is something else we must do, we will appreciate hearing from you.

We noticed your comment stating that, "The appropriator of groundwater by means of a natural flowing water well should be aware that waste of groundwater is prohibited and that all flowing wells are to be capped or equipped with valves that the flow of water can be stopped when the water is not being put to beneficial use." Our water well in the Buttes Reg Coulee Unit is flowing from the Madison Lime formation, and we do have API wellhead equipment installed that is capable of handling the pressures and temperatures required to adequately keep this well under control with an adequate safety factor.

Sincerely,

Robert W. Peterson

RWP: 0:00

Enclosures

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* 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 quaduplicate for the Appropriator.
MEMORANDUM
MONTANA WATER RESOURCES BOARD
Helena, Montana

From: Ronald L. Guse
To: R. W. Peterson, Vice President
Buttes Gas & Oil Company

Date: June 12, 1970

Subject: Notice of Appropriation of Groundwater

The enclosed form will have to be filed in the County Clerk's Office in Musselshell County.

Date April 27, 1970, Book 235, pg. 574-58

Avoid Verbal Instructions

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

March 20, 1970

7. The location, type, size and depth of well or wells contemplated 1950' FSL, 1760' FEL, Sec. 36 (160 Ac), 11N, 30E, MPM, Musselshell County, Montana. Rotary, 9 7/8' hole, 6600', casing (7') to be cemented to 5600'.

8. The probable or estimated depth of the water table or artesian aquifer 6600'.

9. Name, address and license number of the driller engaged Soape Drilling Company, Inc.

P. O. Box 7, Melstone, M. 59054. License No. 160

10. Give such other similar information as may be useful in carrying out the policy of this act. Water from this well will be injected into the Tyler "C" Sand formation of the South. Reg. Coulee Field as a part of waterflooding operations in connection with secondary recovery operations. Injection of this water will increase the ultimate yield of recoverable oil from the Tyler "C" Sand formation and will be in the best interest of conservation of natural resources.

Doc. No. 180465
Filed for record this 21st day of April
A. D. 1970, at 2:15

Signature of Appropriator R. W. Peterson, Vice President of Buttes Gas & Oil Co.
Date April 5, 1970

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

1. Name of Appropriator: 8840 Co.
   Address: 420 C. A. Johnson Building, Denver, Colorado 80202
   County of: Musselshell
   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 for injection into the Tyler "C" Sand formation in the South Key Coulee Field in connection with secondary recovery of oil.

3. The rate of use in gallons per minute or miner's inches of groundwater claimed: 125 gallons per minute.

4. The annual period (inclusive dates) of intended use: January 1 through December 31, continuous use.

5. The probable or intended date of first beneficial use: March 20, 1970

6. The probable or intended date of commencement and completion of the well: March 20, 1970

7. The location, type, size and depth of well or wells contemplated: 1950' FSL, 1760' FEL, Sec. 36 (NE Sec.), T. 11 N, R. 30E, Musselshell County, Montana. Rotary, 9 7/8" hole, 650' casing (7') to be cemented to 1850'.

8. The probable or estimated depth of the water table or artesian aquifer: 6600'.

9. Name, address and license number of the driller engaged: Soape Drilling Company, Inc.
   P. O. Box 7, Miles City, Montana 59461. License No. 160

10. Give such other similar information as may be useful in carrying out the policy of this act: Water from this well will be injected into the Tyler "C" Sand formation of the South Key Coulee Field as a part of waterflooding operations in connection with secondary recovery operations. Injection of this water will increase the ultimate yield of recoverable oil from the Tyler "C" Sand formation and will be in the best interest of conservation of natural resources.

Doc. No.: 180-465
Filed for record this 2 D day of April, A.D. 1970, at 8:45, at

Signature of Appropriator: R. W. Peterson, Vice President of Buttes Gas & Oil Co.
Date: April 18, 1970

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

1. BGDGCo., of 420 C. A. Johnson Building, Denver
   (Name of Appropriator)
   (Address)
   Town of Denver, State of Colorado (80202), 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 for injection into the Tyler "C" Sand formation in the South Key Coulee Field in connection with secondary recovery of oil
   (describe lands to be benefited, if for irrigation)

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

4. The annual period (inclusive dates) of intended use
   January 1 through December 31
   continuous use

5. The probable or intended date of first beneficial use
   March 20, 1970

6. The probable or intended date of commencement and completion of the well* or wells
   March 20, 1970

7. The location, type, size and depth of well or wells contemplated
   1/80 FS, 1760', FS, Sec. 36
   (NE 1/4 SE 1/4, T 11N, R 30E, NFR, Musselshell County, Montana, not yet drilled; hole, 6000' deep to be connected to 5600').

8. The probable or estimated depth of the water table or artesian aquifer
   600'

9. Name, address and license number of the driller engaged
   Boose Drilling Company, Inc.
   P. O. Box 7, Miles City, Montana 59461, License No. 160

10. Give such other similar information as may be useful in carrying out the policy of this act...
    "Water... from this well will be injected into the Tyler "C" Sand formation in the South Key Coulee Field as part of waterflooding operations in connection with secondary recovery operations... Injection of this water will increase the ultimate yield of recoverable oil from the Tyler "C" Sand formation and will be in the best interest of conservation of natural resources.

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

    Signature of Appropriator:
    [Signature]

    [Date]

* As defined in the Code Sec. 1 (e) "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.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

8640 Co., of 420 C. A. Johnson Building, Denver
(Name of Appropriator)
County of Denver
(State of)
Colorado (50502)

The beneficial use to which water is to be applied is for injection of the Tyler "C" Sand
formation in the South Key Buttes Field in connection with secondary recovery of oil
(describe lands to be benefited if for irrigation)

The rate of use is gallons per minute or miner's inches of groundwater claimed

125 Gallons per minute.

The annual period (exclusive of intangible use)
January 1 through December 31, continuous

The probable or intended date of first beneficial use
March 20, 1979

The probable or intended date of commencement and completion of the well or wells
March 20, 1979

The location, structure and depth of well or wells contemplated: 1979: T 11 N, R 30 E, FPL, Sec. 36
(H.E. Set. 111, 30E, HEN, Hulselott, County: Montana, Township: 11, Range: 30, Section: 36,
6500 Feet, Eastern 1/2, North 1600 Feet, East 6500 Feet, County: Montana, Township: 11, Range: 30,
Section: 36, 6500 Feet, Eastern 1/2, North 1600 Feet)

The probable or estimated depth of the water table or artesian aquifer
6000

Name, address and license number of the driller engaged
Soape Drilling Company, Inc.
P.O. Box 837, Helena, Montana 59601, License No. 160

10. Give such other similar information as may be useful

In carrying out the policy of this act, water from this well will be injected into the Tyler "C" Sand formation in the South Key Buttes Field as a part of waterflooding operations. In connection with secondary recovery operations, injection of this water will increase the ultimate yield of recoverable oil from the Tyler "C" Sand formation and will be in the best interest of conservation of natural resources.

No. of Driller's Royalty Co., Inc.

Signature of Appropriator
R. W. Peterson, Vice President of Butte Gas & Oil Co.
Date April 13, 1979

*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.
Enclosed for recording is the Notice of Appropriation of Groundwater for the Buttes Keg Coulee Unit No. 1 Water Supply Well. Please return the recorded notice to this office.

Sincerely,

Thea Duckworth

Enclosures—Notice of Appropriation
Check for $4 Recording Fee

cc: Montana State Engineer
15 Poly Drive
Billings, Montana

Montana School of Mines
Butte, Montana
STATE OF COLORADO

CITY AND COUNTY OF DENVER

On this 9th day of November, 1965, before me, Margaret J. Kees, a Notary Public, personally appeared John E. Blixt as President of JUNIPER OIL & GAS COMPANY, a Delaware corporation, known to me to be the President of the corporation that executed the within instrument.

Witness my hand and official seal.

[Signature]

Notary Public

My commission expires: November 5, 1969
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<th>Type of Form</th>
<th>County File No.</th>
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<td>Sherlock, Mrs. Graham</td>
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<td>Eliza, Elizabeth</td>
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Notice of Completion of Groundwater Appropriation
Without Well
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1971

Owner: M.C. Benedict
Address: 2130 Beach Blvd., Billings

Contractor (if any): M.C. Benedict
Address of Contractor: 2130 Beach Blvd., Billings

Date Started: 1971
Date Completed: 1971

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

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.

Signature of Owner: M.C. Benedict
Date: 7-8-71

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.