

Log of Well
 Description of Material Drilled

311 - 400	shaly sand
400 - 440	shaly sand and shale
440 - 480	shaly shale
480 - 487	shaly sand
487 - 526	fine to medium sand and shaly sand
526 - 590	shaly sand and shale
590 - 630	shaly sand
630 - 640	shaly sand
640 - 650	shaly sand

RECEIVED
JUN 10 1958

T. 14 R. 23
County Fergus 23

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Merlin Meyers Address Grass Range Montana
Driller Gordon Scammon Address Roundup, Montana
Date Started June 7, 1958 Date Completed June 10, 1958
Location: Sec. 27 T. 14N R. 23E 1/4 sec. NW OF THE NE

Type of well Drilled (Dug, driven, bored, or drilled) Equipment used Spudder (Churn drill, rotary, other)

Water use: Domestic Municipal Stock Irrigator
Industrial Drainage Other: _____

Casing: 0 ft. to 75 ft. Type T and C Size 6"
Casing: _____ ft. to _____ ft. Type _____ Size _____
Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 35 to ft. 43 Ft. _____ to ft. _____

Type of screen or perforations Slots

Static Water level, for non-flowing well: 0 feet from top of ground _____ feet.

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

Pumping water level: 20 feet at 18/gal/min gal. per min.

How tested: Bailer

Length of test: 1 hour

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

(over)

1-14-14

T. 14 R. 2
County: Blaine

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana



WATER WELL LOG

STATE ENGINEER

K	25		

Owner: [Handwritten Name] Address: [Handwritten Address]
 Driller: [Handwritten Name] Address: [Handwritten Address]
 Date Started: [Handwritten Date] Date Completed: [Handwritten Date]
 Location: Sec. 25 T. 14 R. 2 1/4 sec. 104 NW 4

Type of well: [Handwritten] Equipment used: [Handwritten]
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

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

Casing: _____ ft. to _____ ft. Type _____ Size _____
 Casing: _____ ft. to _____ ft. Type _____ Size _____
 Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. _____ to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations: _____

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

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

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

How tested: [Handwritten]

Length of test: [Handwritten]

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

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	23	Surface (-um + 0)
23	25	displaced sand course to fine (rain)
25	31	" very fine (rain) sand
31	47	(-kave 2 + sand (H ₂ O based 2 gal./min))
47	51	Hard Rock - Shell + sand) T.D.

1011

CO

State of Maryland
 Dept. of Geology
 9-15
 MARY HALL
 County Clerk and Recorder
 By: *Maynard Hardy*
 Deputy

8/10/02

File No. 17010

DUPLICATE

Township R. 12
County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 26 1963

Notice of Completion of Groundwater
Appropriation by Means of Well ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

Owner William Finkbeiner Address Grass Range, Montana

Driller George O. Singley Address Lewistown, Montana

Date of Notice of Appropriation of Groundwater None

Date well started Nov. 25, 1963 Date Completed Nov. 27, 1963

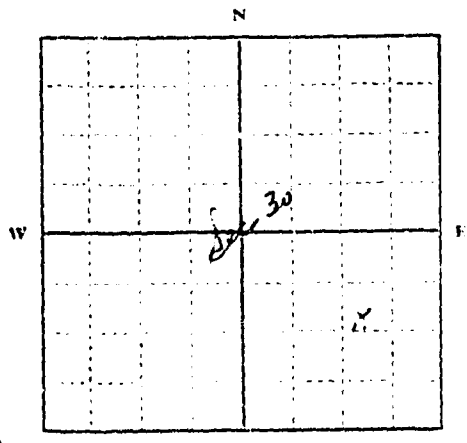
Type of well Drilled Equipment Used Cable Tool
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic Municipal Other Irrigation
Industrial Drainage Stock

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

Top of Ground	
(Elev. above sea level.....)	
0	1 Topsoil
1	8 Loose sand
8	35 Yellow sandstone
35	40 Coal
40	50 Blue sandstone
50	60 Yellow sandstone
60	76 Blue sandstone
	Water

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5	3/16 4 1/2 OD 4 1/2 ID 6.7#	above ground 1'	76			



SW 1/4 NW 1/4 SE Sec. 36 T. 14 R. 23
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 40 feet.

Shut-in Pressure for Flowing Well None

Pumping Water Level 68 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well None

How Tested Bailing Length of Test 1 hr.

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

19
Driller's License Number
George O. Singley
Driller's Signature

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

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

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

17010

COPY

State of New York
County of [illegible]

Date DEC 23 1963 19

1:15 P. M.

Wey Rethman
County Clerk and Recorder

\$200 pt

GW

File No. 4463

DUPLICATE

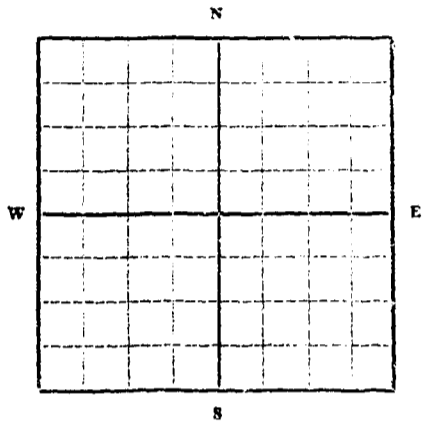
T. R. County Fergus

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

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

MARJORIE E.

1. Marjorie E. Green of Grass Range (Name of Appropriator) (Address) (Town) County of Fergus State of Montana have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Lot 3 Block 10- Grass Range

1/4 Sec. T. R. Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

- 2. The beneficial use on which the claim is based Public Eating Place
3. Date or approximate date of earliest beneficial use; and how continuous the use has been November 13, 1961 (Continuous)
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 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
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Jet Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Spudded in- November 9 - 1961- Completed Nov. 13, 1961.
8. The depth of water table 98 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 5 & 5/8 - 104 Ft.
10. The estimated amount of groundwater withdrawn each year 125,000 Barrels.
11. The log of formations encountered in the drilling of each well if available Spudded into the Kootenie & T.D. In the First Cat Creek Sand.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner Date

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

1254

8463

COPY

State of Montana,
County of Fergus.

FEB 5 1962

Filed _____ 19__

at 10:30 o'clock A. M.

May Rathburn
County Clerk and Recorder

\$2.00 per

Form No. 1
5-60

T. R.
County

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER

Owner Address

Driller Address

Date Started Date Completed

Location: Sec. T. R. $\frac{1}{4}$ sec.

Type of well Equipment used
(dug, driven, bored, or drilled) (churn, drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations

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

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

Pumping water level feet at gal. per min.

How tested:

Length of test

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

(over)

GW

Approved Stock Form - State Publishing Co., Helena, Montana - 1961

File No. **17348**

T. **14 N., R. 24 E.**

DUPLICATE

County **Fergus**

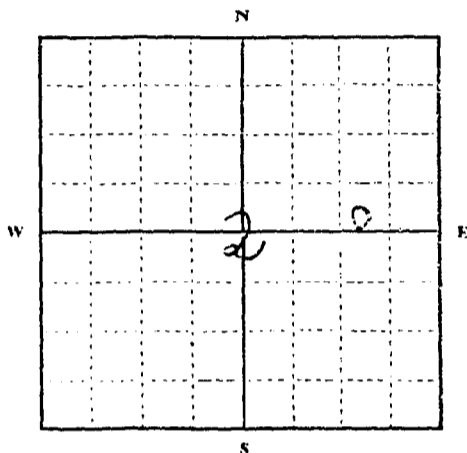
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER SCDE
OFFICE OF STATE ENGINEER



Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. **L. D. ARCHER** of **Grass Range**
(Name of Appropriator) (Address) (Town)
County of **Fergus** State of **Montana**
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 NE Sec. 2, T. 14 N. R. 24 E

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been **1948 - date of construction continuous use since that date.**

4. The amount of groundwater claimed (in miner's inches or gallons per minute) **No specific amount - rain and snow runoff only.**

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal **open drinking by livestock**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater **not well - reservoir constructed in 1948**

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 **not well**

10. The estimated amount of groundwater withdrawn each year **not approximately nine months out of each year**

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 **L. D. Archer**

Date **December 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.

Fergus

L. D. ARCHER

s

he is

s

is

s

L. D. Archer

L. D. Archer
Grass Range, Montana

Subscribed and sworn to before me this

30th

December

62

Osceola W. Black

Lewistown, Montana

Notary Public for the State of Montana

Commission January 19

64

Expires

State of Montana
County of Fergus
Filed
at 2:40
P.M.
1962
Mary R. [unclear]
Clerk

17348

COPY

Form No. 18
8-60

T. 14 R. 24
County Flourish

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER

	X	

Owner WILLIS O OLSON Address Grand Range
Driller W. L. Livingston Address Winnett
Date Started July 10, 1950 Date Completed Aug 9, 1950
Location: Sec. 7 T. 14 R. 24 $\frac{1}{4}$ sec. NW 1/4 SE

Type of well drilled Equipment used drill
(Dug, driven, bored, or drilled) (Churn, grill, rotar., other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other _____

Casing: 5 ft. to 344 ft. Type OD 4" galv. Size 4 1/2
Casing: _____ ft. to _____ ft. Type _____ Size _____
Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. _____ to ft. _____ . Ft. _____ to ft. _____

Type of screen or perforations _____

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

Shut-in pressure, for flowing well: flows 1 1/2 galls per min.
(date)

Pumping water level _____ feet at _____ gal. per min. 1 1/2 galls

How tested: _____

Length of test _____

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

flows 1 1/2 galls per minute

(over)

8116

COPY

Filed DEC 29 1961 19
at 5:00 o'clock P.M.
Wm. Dathum
County Clerk and Recorder
\$1.00 - pd .

File No. 12980

T. 14N. R. 24 E

DUPLICATE

County Fergus

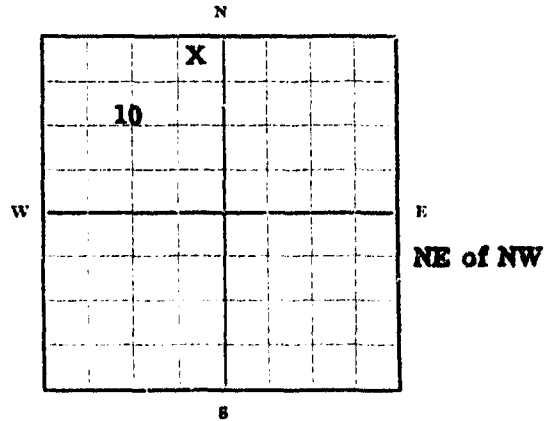
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
STATE ENGINEER

Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

- I, **Martin Olson** (Name of Appropriator), of **P. O. Box 101** (Address) **Grass Range** (Town) County of **Fergus**, State of **Montana**, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
- The beneficial use to which water is to be applied is **Irrigation on fields located in Sections 9, 10 & 11 - Township 14 North of Range 24 East** (describe lands to be benefited, if for irrigation)
- The rate of use in gallons per minute or miner's inches of groundwater claimed **anticipated flow estimated at 2400 gallons per minute**
- The annual period (inclusive dates) of intended use **May through September annually**
- The probable or intended date of first beneficial use **Summer of 1963**
- The probable or intended date of commencement and completion of the well* or wells* **Expected starting date Feb. 1, 1963; expected completion April 15, 1963, weather permitting.**
- The location, type, size and depth of well or wells contemplated **Located in NE 1/4 NW 1/4 of Section 10, Twp. 14 N of Rge 24E; Irrigation well cased W/7" O.D. Casing; between 1065' & 1125'**
- The probable or estimated depth of the water table or artesian aquifer **1065-1125**
- Name, address and license number of the driller engaged **Wellman & Munson Drilling Co., Inc. Box 142, Grass Range, Montana - License No. 26**
- Give such other similar information as may be useful in carrying out the policy of this act. **We will attempt to retrieve a high pressure water flow which was encountered in the Amsden formation by Phillips Petroleum Co. when drilling a Stra-test well in 1958**



NW 1/4 Sec. 10 T. 14 N R. 24 E

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

Signature of Appropriator *Martin Olson*

Date **January 17, 1963**

* 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.

12980 COP.

State of Montana, }
County of Fergus. } ss.

Filed JAN 17 1963 19

at 10:00 o'clock A. M.

Way Rathburn
County Clerk and Recorder

720. *pr*

File No.

T. 14N R. 24E

DUPLICATE

County Fergus

(See attached copies for complete log)

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

RECEIVED JUN 7 1963

Notice of Completion of Groundwater Appropriation by Means of Well

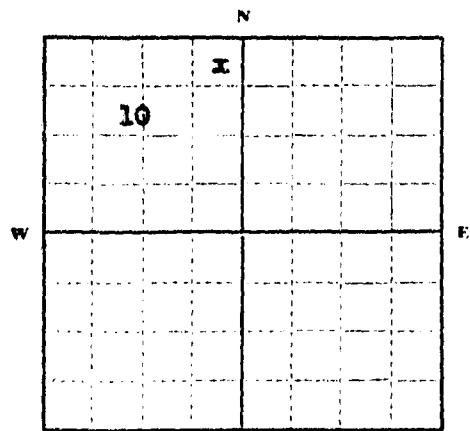
(Under Chapter 237, Montana Session Laws, 1961)

Vertical scale with geological descriptions: 0 Top of Ground (Elev. above sea level 3470), 181-201 First Cat Creek sand, 271-351 Red clay, Shales, Bentonites, 433-466 Second Cat Creek sand, 560-676 Third Cat Creek sand, 676-680 Coal Layers & Sand, 918-930 Ellis Sands, 1079-1128 Amdsen (Water Flow)

Owner: Martin Olson Address: Grass Range, Montana
Driller: Wellman & Munson Drilling Company Address: Grass Range, Montana
Date of Notice of Appropriation of Groundwater: January 17, 1963
Date well started: March 1, 1963 Date Completed: May 18, 1963
Type of well: Drilled Equipment Used: Rotary
Water Use: Domestic, Municipal, Other, Irrigation, Industrial, Drainage, Stock

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

Table with columns: Size of Drilled Hole, Size and Weight of Casing, From (Feet), To (Feet), PERFORATIONS (Kind Size, From (Feet), To (Feet)).



NW 1/4 Sec. 10, T14N R 24E. Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well... feet.
Shut-in Pressure for Flowing Well... 100
Pumping Water Level... feet at ... gal. per minute.
Discharge in gal. per min. of flowing well... Approx. 900
How Tested... S.C.S. Scale Length of Test... 48 hours
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not a well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)... Approx. 300

more or less. All casing was cemented by Halliburton. Water Zone 1079 - 1128, acidized by Halliburton. Increased flow about 40%

26 Driller's License Number
Wellman & Munson Drilling Company
B. M. Munson Driller's Signature

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

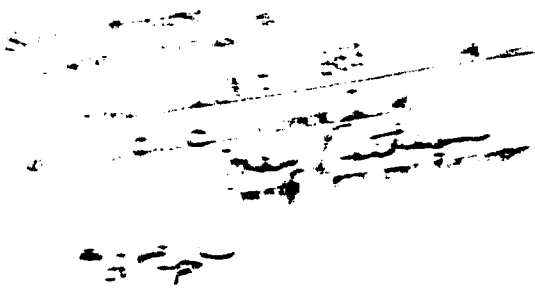
Please answer all questions. If not applicable, so state, otherwise the form will be returned.

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

4597

14547

COPY



1	-	1	White sand
2	-	2	White sand
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MARTIN & LSON
 Grass Range, Mont.

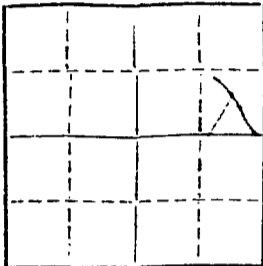
T. 14 R. 24 ²⁴
County: Serfus

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECORDED

WATER WELL LOG

STATE ENGINEER



Owner Merwin Moncur Address Cross Range, Mont.

Driller W. L. Munnison Drilling Co. Address Cross Range, Mont.

Date Started Nov. 8 - 1960 Date Completed Nov. 15 - 1960

Location: Sec. 24 T. 14 R. 24 1/4 sec. SE⁴ NE⁴

Type of well drilled Equipment used Rotary
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other: _____

Casing: 0 ft. to 21 ft. Type Std. BLK Size 7" D.D.

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 11 to ft. 20 Ft. _____ to ft. _____

Type of screen or perforations Standard

Static Water level, for non-flowing well: 10 feet.

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

Pumping water level 32 feet at One gal. per min.

How tested: pumping

Length of test pumping 12 hrs.

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

7 3/8" hole to 21 ft.
6 1/8" hole to 50 ft. T.D.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	3	Surface
3	11	displaced boulders
11	17	pea gravel
17	20	quicksand
20	50	Chert-dolomite-garnetsite-Zinc-MarkLETD

4/20/22
 Filed
 3-4-22
 Very O. ...
 ...
 ...

22-11

Form No. 18
8-60

211

T. 1 R. 24 E
County Fergus

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER

Owner MELVIN H. MONGUIP Address Grass Range, Mont
Driller Willson & Hanson Address Grass Range, Mont
Date Started June 21-61 Date Completed June 27-61
Location: Sec. 24 T. 14 R. 24 E $\frac{1}{4}$ sec. SE $\frac{1}{4}$ NE $\frac{1}{4}$

Type of well Drilled Equipment used Rotary
(Dig, driven, bored, or drilled) (Churn, drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other _____

Casing: 0 ft. to 20 ft. Type Steel 14 1/2 eye Size 5 1/2

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. _____ to ft. _____ . Ft. _____ to ft. _____

Type of screen or perforations _____

Static Water level, for non-flowing well: 24 feet.

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

Pumping water level 50 feet at 7 gal. per min. _____

How tested: Bailer & Pump

Length of test adequate

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

Cemented

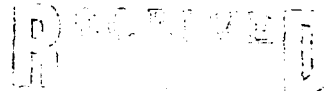
(over)

Form No. 18
8-60

Revised 57

T. 14 R. 24
County Judith

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana



WATER WELL LOG

STATE ENGINEER

			X

Owner Paul C. Yerke Address Glenn, Range, Mont.
Driller Rollin W. Munn, S.E. Address Glenn, Range, Mont.
Date Started Apr 4 - 1961 Date Completed Apr 5 - 1961
Location: Sec. 27 T. 14 R. 24 $\frac{1}{4}$ sec. SE⁴SE⁴

Type of well drilled Equipment used Pottery
(dug, driven, bored, or drilled) (churn, drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other _____

Casing: 0 ft. to 22 ft. Type Steel Size 4 1/2 C.P.

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 17 to ft. 22. Ft. _____ to ft. _____

Type of screen or perforations Regular

Static Water level, for non-flowing well: 5 feet.

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

Pumping water level 12 feet at 4 1/2 gal. per min.

How tested: Pump

Length of test 4 hrs

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

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	4	Surface
4	11	Clay - coarse gravel
11	17	Coarse gravel - base of clay
17	21	Gravel of fine sand - water
21	22	Hard Sand Rock T.O.

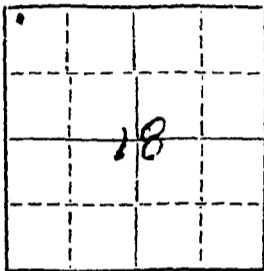
Filed MAY 17 1961
 at 10:10 a.m. O.C.L.A.F. N.
 Mary Robinson
 County Clerk and Recorder
 4/1/61

5402
COPIES

T. 14 R. 25 Sec 18
County

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG



Well #2
Owner Ted Schless Address Great Falls, Montana

Driller GEORGE O. SIMPSON Address Lewistown, Montana

Date Started Dec. 26, 1957 Date Completed Dec. 26, 1957

Location: Sec. 18 T. 14 N. R. 25 E 1/4 sec.

Type of well Drilled (Dug, driven, bored, or drilled) Equipment used Cable Tool (Churn drill, rotary, other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other:

Above ground Casing: 2 ft. to 20 ft. Type R & S Size 7" OD

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 10 to ft. 20 Ft. to ft.

Type of screen or perforations Slots

Static Water level, for non-flowing well: 8 feet.

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

Pumping water level: 15 feet at 60 gal. per min.

How tested: Pumped

Length of test: 1 hr.

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

7" OD casing drove to 20'

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	1	Topsoil
1	10	Yellow clay
10	20	Gravel, water
20	25	Water, Blue shale

State of Montana
 County of Park
 M. J. [illegible]
 3. 5. 19 [illegible]
 O. M.
 County Clerk and Recorder
 50 ft X

COR

90285

File No.

T 13 N. R. 15, E.

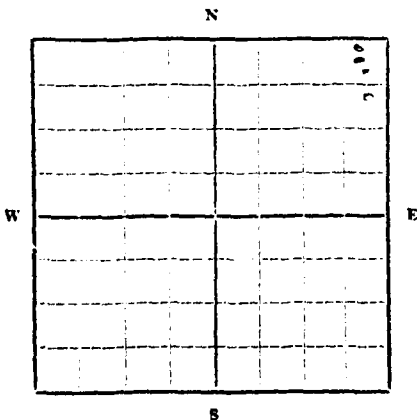
DUPLICATE

County Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. **Vera Ruth Gorman** of **Moors**
(Name of Appropriator) (Address) (Town)
County of **Fergus** State of **Montana**
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



E 1/4 NE 1/4 Sec. 12, T. 13 R. 15

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

2. The beneficial use on which the claim is based **Irrigation, livestock use, domestic use and any other uses.**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been **September 25, 1910; water used continuously since - year round use.**

4. The amount of groundwater claimed (in miner's inches or gallons per minute) **Estimated at 500 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 **SE 1/4 of Sec. 12, Twp. 13, N. Rgs. 15, East, Judith Basin County**

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal **sub-irrigation and power pump**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater **Commenced September 10, 1910; Completed September 25, 1910**

8. The depth of water table **Unknown**

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 **See No. 6 above.**

10. The estimated amount of groundwater withdrawn each year **See No. 4 above.**

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 *Vera Ruth Gorman*

Date **May 16, 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.

W.W. Log #16

Vera Ruth Gorman

Filed for record this 16th day of May A. D. 1962 at 2:30 o'clock P.M.

Delight Leslie, Co. Rec.

by *Betty Gorman* Dep.

Fee \$2.00 pd.

25	30	29	28	27	26	25	30
36	31	32	33	34	35	36	31
1	2	3	4	1	2	3	4

Township No. 13 Range No. 15 East Meridian.

	1							1	
36	2	31	32	33	34	35	36	2	31
	3							3	
	4							4	
4	3	2	1	4	3	2	1	4	3
	5	6	5	4	3	2		5	6
	6							6	
	7							7	
12	2	7	8	9	10	11	12	2	7
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	4							4	
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	5							5	
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	3							3	
	4							4	
4	3	2	1	4	3	2	1	4	3
	5	6	5	4	3	2		5	6
	6							6	
	7							7	

Springs on E $\frac{1}{2}$ NE $\frac{1}{4}$, of Sec. 13, Twp. 13, N. Rge. 15, E.

Area irrigated

Printed and Published by The Department of Surveying, The Township, Montreal

No. 1011 DM

File No. 9770

T 13 N. R. 15, E.

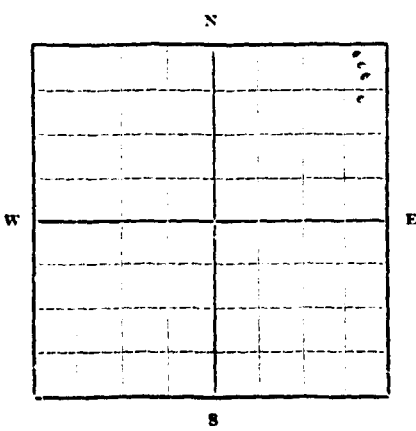
DUPLICATE

County: Fergus

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Vera Ruth Gorman of Moore
(Name of Appropriator) (Address) (Town)
County of Fergus State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



E 1/4 NE 1/4 Sec. 13, T. 13 R. 15
Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

- 2. The beneficial use on which the claim is based **Irrigation, livestock use, domestic use and any other uses.**
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been **September 25, 1910; water used continuously since - year round use.**
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) **Estimated at 500 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 **SE 1/4 of Sec. 13, Twp. 13, N. Rgs. 15, East, Judith Basin County, owned by Vera Ruth Gorman**
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal **sub-irrigation and power pump**
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater **Commenced September 10, 1910; Completed September 25, 1910**
- 8. The depth of water table **Unknown**
- 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 **See No. 6 above.**
- 10. The estimated amount of groundwater withdrawn each year **See No. 4 above.**
- 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 *Vera Ruth Gorman*

Date **May 16, 1963**

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

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

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

9770

COPY

25	30	29	28	27	26	25	30
36	31	32	33	34	35	36	31
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3	2	1	4	3	2	1	4
2	1	4	3	2	1	4	3
1	4	3	2	1	4	3	2

State of Oregon
 County of Polk
 Filed MAY 16 1962
 at 2:15 P.M.
 Mary Rathbone
 County Clerk and Recorder
 \$2.00 pd.

not shown 2011

Township 13, N. Range 15, East Meridian

	1									1	
36	2	31	32	33	34	35	36	2	31		
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	4							4			
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	7							7			
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12	2	7	8	9	10	11	12	2	7		
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	1							1			
13	2	18	17	16	15	14	13	2	18		
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36	2	31	32	33	34	35	36	2	31		
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	4							4			
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	6							6			
	7							7			

Springs on E 1/2 NE 1/4, Sec. 13, Twp. 13, N. Rgs. 15, E.

No. 10B 4-62 2M Area irrigated

Printed and For Sale by THE DAILY NEWS, Lewistown, Montana

GW 3

9361

File No.

DUPLICATE

T. 12, N. R. 15, E.

County Judith Basin

13

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater ... September 25, 1910

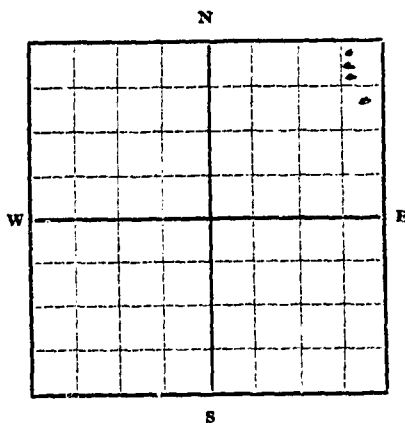
Owner... Burton Wright Address... Moore, Montana

Contractor (if any) Ira L. Wright, deceased

Address of Contractor

Date Started Sept. 10, 1910. Date Completed Sept. 25, 1910

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



E 1/2 NE 1/4 Sec. 12 T. 13 R. 15.

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

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

Estimated at 500 miner's inches; water used for irrigation on SE 1/4 of Sec. 12, Twp. 13, N. Rgs. 15, E., Judith Basin County, and livestock use, domestic use and any other uses; water used year round.

Signature of Owner Burton Wright

Date April 18, 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.

9361

COPY

25	30	29	28	27	26	25	36
36	31	32	33	34	35	36	31

Filed APR 17 1962
at 10:45
Mary Rethman
County Clerk and Recorder
82nd pt.

Township 13 Range 15 East Meridian

	1								1
36	2	31	32	33	34	35	36	31	2
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	1								1
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	4								4
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	4								4
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24	2	19	20	21	22	23	24	19	2
	3								3
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	1								1
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	1								1
36	2	31	32	33	34	35	36	31	2
	3								3
	4								4
4	3	2	1	4	3	2	1	4	3
	5	6	5	4	3	2	1	6	5
	6								6
	7								7

Springs on E $\frac{1}{2}$ NE $\frac{1}{4}$, of Sec. 18, Twp. 13, N., Rge. 15, E.

Area Irrigated

GW3

File No. **3504**

T. **13**, N. R. **15**, E.

21

DUPLICATE

County **Fergus**

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 **September 20, 1945**

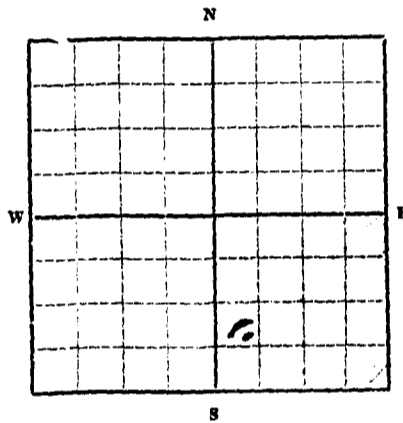
Owner **Burton Wright and Roland Wright** Address **Moore, Montana**

Contractor (if any) **Fred Biehl**

Address of Contractor **Lewistown, Montana**

Date Started **Sept. 14, 1945** Date Completed **Sept. 20, 1945**

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



SW 1/4 SE 1/4 Sec. 24 T. 13 R. 15

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

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

.....

Estimated at 500 miner's inches; water used for

irrigation on SE 1/4 of Sec. 24, Twp. 13, N. Rgs. 15, E.

and livestock use, domestic use and any other uses;

water used year round.

Signature of Owner *Burton Wright*

Signature of Owner *Roland Wright*

Date **April 13, 1968**

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.

9354

COPY

25	1	1	2	3	4	5
30	1	2	3	4	5	6
29	1	2	3	4	5	6
28	1	2	3	4	5	6
27	1	2	3	4	5	6
26	1	2	3	4	5	6
25	1	2	3	4	5	6
30	1	2	3	4	5	6

State of Tennessee }
County of Davis } ss.
Filed APR 17 1962
at 10:45 o'clock P. M.
Mary Plattner
County Clerk and Recorder
8200 pd.

Township 13. N. Range 15. East Meridian

	1								1		
36	2	31	32	33	34	35	36	2	31		
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	7							7			
12	1							1			
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	4							4			
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	2	19	20	21	22	23	24	2	19		
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25	1							1			
	2	30	29	28	27	26	25	2	30		
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36	1							1			
	2	31	32	33	34	35	36	2	31		
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	4							4			
4	3	2	1	4	3	2	1	4	3	2	1
	5	6	5	4	3	2	1	5	6		
	6							6			
	7							7			

One dam and spring on SW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 24, Twp. 13, N. Rge. 15, E.

Area irrigated

GW3

File No. 3355

T. 13 N. R. 15, E.

DUPLICATE

County: Fergus

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 **September 10, 1945**

Barton Wright and

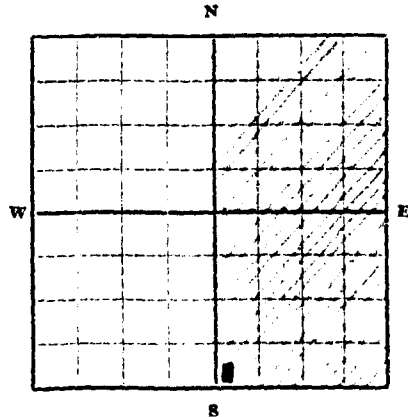
Owner: **Roland Wright** Address **Moore, Montana**

Contractor (if any) **Fred Biehl**

Address of Contractor **Lewistown, Montana**

Date Started **Sept. 1, 1945** Date Completed **Sept. 10, 1945**

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



SW 1/4 SE 1/4 Sec. 25, T. 13, R. 15.

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

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 **Estimated**

at 500 miner's inches; water used for irrigation on E 1/2 of

Sec. 25, and E 1/2 of Sec. 24, Twp. 13, N. Rgs. 15, E., and

livestock use, domestic use and any other uses; water used

year round.

Signature of Owner *Barton Wright*

Signature of Owner *Roland Wright*

Date **April 12, 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.

9355

COPY

25	
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State of California
County of Butte

Filed APR 17 1962

at 10:45 o'clock P.M.

Wray R. Keith
County Clerk and Recorder

200 pt.

Township No. 13 Range No. 15 E. Meridian.

36	1	31	32	33	34	35	36	1	31		
	2							2			
	3							3			
	4							4			
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	7							7			
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4	3	2	1	4	3	2	1	4	3	2	1
	5	6	5	4	3	2	1	5	6		
	6							6			
	7							7			

One dam on SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Sec. 25, Twp. 13, N. Rge. 15, E.

Area irrigated

GW3

File No. 3350

T. 13 N. R. 15, E.

DUPLICATE

County Fergus

GW 4

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

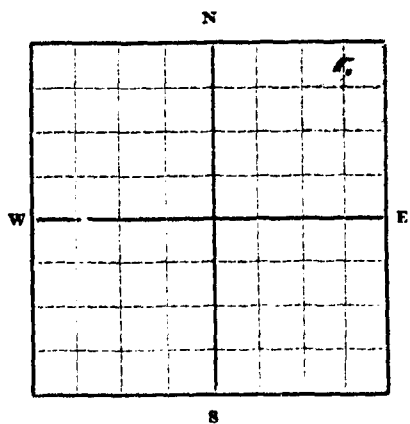
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater **October 15, 1945**
Owner **Burton Wright and Roland Wright** Address **Moore, Montana**
Contractor (if any) **Fred Blehl**
Address of Contractor **Lewistown, Montana**
Date Started **Oct. 1, 1945** Date Completed **Oct. 15, 1945**

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



NE 1/4 NE 1/4 Sec 25 T. 13. R. 15.

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

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

Estimated at 500 minor's inches; water used for irrigation on NE 1/4 NE 1/4 of Sec. 25 Twp. 13, N. Rge. 15, E., and livestock use, domestic use and any other uses; water used year round.

Signature of Owner
Signature of Owner

Burton Wright
Roland Wright
Date **April 13, 1946**

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.

9350 COPY

County of Anderson, } ss.
County of Ferguson }

Filed APR 17 1962 19.....

at 10:45 o'clock P.M.

May Ruthen
County Clerk and Recorder

#200-2

25	30	29	28	27	26	25	24	23	22
36	31	32	33	34	35	36	37	38	39
4	3	2	1	4	3	2	1	4	3
3	2	1	4	3	2	1	4	3	2
2	1	4	3	2	1	4	3	2	1
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4	3	2	1	4	3	2	1	4	3
3	2	1	4	3	2	1	4	3	2
2	1	4	3	2	1	4	3	2	1
1	4	3	2	1	4	3	2	1	4

Township 13, N. Range 15, E. Meridian

36	1	2	3	4	31	32	33	34	35	36	1	2	3	4	31				
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	5	6			6	5	4	3	2	1		5	6		6				
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13	1	2	3	4	18	17	16	15	14	13	1	2	3	4	18				
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36	1	2	3	4	31	32	33	34	35	36	1	2	3	4	31				
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	5	6			6	5	4	3	2	1		5	6		6				
	7											7							

One dam and spring on NE 1/4 NE 1/4, Sec. 25, Twp. 13, N. Rge. 15, East

Area irrigated

No. 40B 9-6C 2M

Printed and For Sale by THE DAILY NEWS, Lewistown, Montana.

GW3

File No. **9360**

T. **13** N. R. **15** E

DUPLICATE

County **Fergus**

36

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

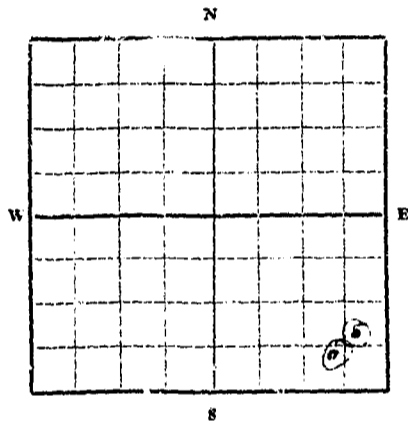
Date of Appropriation of Groundwater **Sept. 12, 1959**
Owner **Burton Wright and Roland Wright** Address **Moore, Montana**

Contractor (if any) **Burton and Roland Wright**

Address of Contractor **Moore, Montana**

Date Started **Sept. 1, 1959** Date Completed **Sept. 12, 1959**

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



SE 1/4 Sec. 35 T. 13 R. 15

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

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

Estimated at 100 miner's inches; water used for irrigation, sub-irrigation, stock, domestic and other purposes.

Stock water dams and springs

Signature of Owner
Signature of Owner

Burton Wright
Roland Wright

Date **April 13, 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.

9360

COPY

25	3	2	30	3	2	30
	4	1		3	2	
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	4	1		3	2	
				3	2	
				3	2	

Filed APR 17 1962 1962
 10:45 o'clock P.M.
 Emily H. [Signature]
 County Clerk and Recorder
 #20pt

Township 13 N Range 15 E Meridian

36	1	31	32	33	34	35	36	1	31														
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	5	6	5	4	3	2	1	5	6														
	6							6															
	7							7															

Two dams and springs on Sec. 36 on SE $\frac{1}{4}$ of SE $\frac{1}{4}$

County Sergus Twp. 13 N Rge. 16 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
7	Hickory Kneped Ranch, Montana Corporation	E 7 N 4	17368	
11	Hertel, Wilmer H.	14 N 4	16873	
12	Hertel, Max	11 N 2	44498	
14	Hanna, Charles	E 7 N 4	17309	
15	Hanna, John C.	12 N 4	9993	
16	Wright Ranch Inc.	11 N 2	41183	
17	Wright, Burton	11 N 4	9366	
17	Wright, Burton	11 N 3	9357	
17	Wright, Burton, V.	11 N 3	9356	
17	Wright, Burton	11 N 4	9352	
17	Wright, Burton	11 N 3	9353	
18	Sorman, Vera Ruth	11 N 4	—	
18	Sorman, Vera Ruth	11 N 4	9771	
18	Hanna, Manfred	11 N 4	17485	
18	Hanna, Manfred	11 N 4	17483	
18	Wright, Burton	11 N 3	9362	
18	Wright, Burton	11 N 4	9365	
18	Wright, Roland	11 N 4	9351	
19	Wright, Roland	11 N 4	9363	
20	Hanna, Manfred	11 N 4	17486	
22	Hanna, J. C.	11 N 4	17423	
24	Hertel, Wilmer H.	11 N 4	16874	
28	Hanna, J. C.	11 N 4	17424	
28	Hanna, Manfred	11 N 4	17487	
29	Wright, Burton and Roland	11 N 2	19280	
29	Wright, Burton and Roland	11 N 3		
29	Wright, Burton and Roland	11 N 3	9349	
30	Wright, Roland and Burton	11 N 4	9364	
30	Wright, Burton and Roland	11 N 3	9358	
31	Wright, Burton and Roland	11 N 3	9348	
31	Wright, Burton and Roland	11 N 3	9359	
32	Industrious, Dennis W.	11 N 4	13837	
36	Hanna, J. C.	11 N 4	17425	
18	Hanna, Manfred	GW 4	17484	
25	Hanna, Manfred	GW 4	17488	

GW 17368

Approved State Engineer State of Montana Helena, Montana 59601

File No.

T 13 N R 16E

DUPLICATE

County Fergus

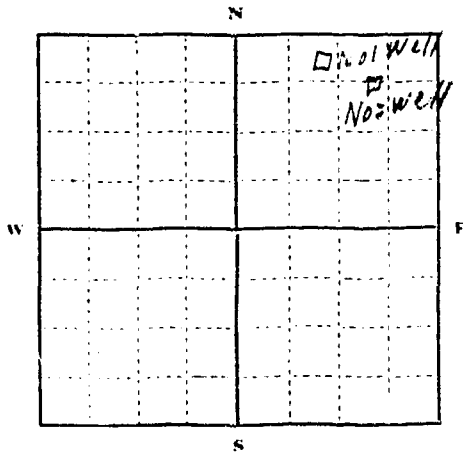
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Hickey Hereford Ranch, Montana Corporation of Box 56 Moore
(Name of Appropriator) (Address) (Town)

County of Fergus 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 Domestic, and
LiveStock water.

3. Date or approximate date of earliest beneficial use; and how continu-
ous the use has been one well since 1915, the other
well since 1962, Two Springs used since 1825.

4. The amount of groundwater claimed (in miner's inches or gallons
per minute) 30 gals. for each well 100 gallons for
each spring.

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
These wells are only used for Domestic and
watering livestock, springs are used for watering
livestock.

6. The means of withdrawing such water from the ground and the loca-
tion of each well or other means of withdrawal Water is with
drawn with Pumps. One well is at House, the other
is at barn, Dam built on one Spring 1944.

NE&SE Sec. 7 T.13N R. 16E

Indicate 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 with-
drawal of groundwater. Well in 1962, was started & completed in Month of Aug. 1962
The well used since 1915, This well was drilled deeper in 1963, Month of April
Dam built in 1944

8. The depth of water table around ten 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 Both wells are drilled, No 1 is 106 feet deep with
4 inch casing No 2 is 155 feet deep with 4 inch casing.

10. The estimated amount of groundwater withdrawn each year 365,000 gallons for one well, and 200,000
for the other well

11. The log of formations encountered in the drilling of each well if available Well No. 1, 10 feet soil & gravel
7 feet clay & gravel 3 feet gravel, 7 feet clay & gravel, 3 feet shale blue, 20 feet shale
black & sticky, 35 feet shale gray blue, 20 feet shale with sand seams, water, 5 feet Bentonite
water, 5 feet gray blue shale hard, with water, well No 2, 20 feet sand & gravel yellow
10 feet shale & grave l blue, 60 feet blue clay & Gravel, 65 feet Blue shale with Bentonite layers

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 We have no further information.

Hickey Hereford Ranch
Signature of Owner Thomas H. Hickey

Date 12/28/63

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

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

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

17368

COPY

State of Maryland
County of Prince Georges

Filed DEC 30 1903 12:05

pd *May Rother*
County Clerk and Recorder

File No. 16873

T. _____ R. _____

DUPLICATE

County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

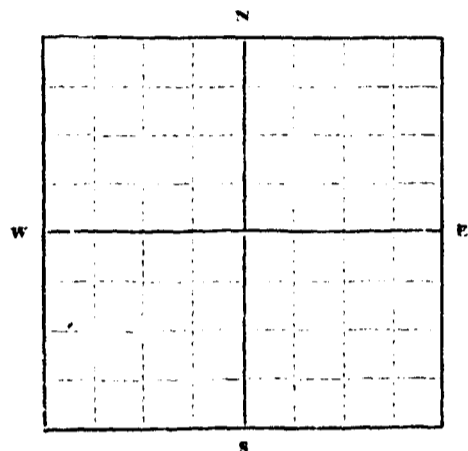
RECEIVED
DEC 23 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Wilson, J. Lewis of Helena
(Name of Appropriator) (Address) (Town)

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



SW 1/4 Sec. 11 T. 13 N. R. 4

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

2. The beneficial use on which the claim is based Home uses, stock water, water garden, garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1946
Intermittent during ten short periods of time since 1946. The place was not used.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 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
possible area about 5/8 ac.
Wilson, J. Lewis

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

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

8. The depth of water table. 20 ft

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 4 inch hole, 20 ft deep

10. The estimated amount of groundwater withdrawn each year. 100 gallons

11. The log of formations encountered in the drilling of each well if available. 100 ft of gravel, 14 in. hole, 20 ft deep, 20 ft of sand, 20 ft of clay, 10 ft of 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.

Signature of Owner Wilson, J. Lewis

Date December 1, 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.

11355

15873 COPY

State of Montana }
County of Park } ss.

Filed DEC 18 1963 19
at 2:30 o'clock P.M.

Way Rothman
County Clerk and Recorder

\$200.00

File No. 44-10

T. 12 R. 12

DUPLICATE

County Fergus

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater
Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

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

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

0---107 -- Gravel and Yellow Clay

107-111 -- Yellow Clay
Small amount of Water

111-114 -- Gray Shale

114-116 -- Hard sandy layer;
Contains some water

116-155 -- Sandy Shale

155-187 -- Light Gray Shale

187-202 -- Purple Shale

202-214 -- Light Gray Shale

214-222 -- Red Shale

222-270 -- Light Gray Shale

270-285 -- Gray Sand;
Water

285-320 -- Gray and Purple Shale;
Cavey

320-338 -- Red Shale

338-340 -- Sandy Gray Shale

340-358 -- Gray and White Sand-
Contains Water

358-360 -- White Clay

360 --- Bottom

Owner Max Fertel Address Moore, Montana

Driller Misamore Drilling Address Lewistown, Montana

Date of Notice of appropriation of groundwater.....

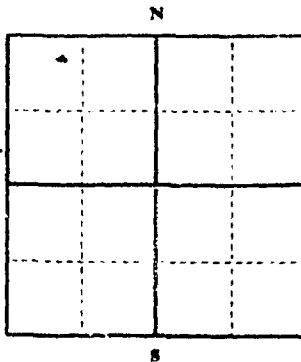
Date well started 9--16--70 Date completed 10--24--70

Type of well Drilled Equipment used Cable Tools
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
0'-267'	6 5/8" OD	0'	116'			
6"	1 1/2"					
267'--360'	6 3/4"	1' above ground	267'	Torch Cut Slots	270'	285'
3 7/8"	3 1/2" OD				340'	360'
	8"	255'	360'			



Static Water Level for non-flowing well
1' below surface feet.

Shut-in Pressure Flowing Well.....

Pumping Water level 140 feet
at approx. 14 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Bailer

Length of Test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Surface casing driven to 116'

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

Doc. No. 44-10
Filed for record
this 12 day of Nov
A. D. 19 70 at Helena
o'clock 12 M.

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

Show exact depth of bottom.

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

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

144
Driller's License Number

[Signature]
Driller's Signature

44498

COPY

State of Montana, } ss.
County of Fergus.

Filed NOV 29 1971 19

at 2:20 o'clock P. M.

Wey Rothman
County Clerk and Recorder