

File No. 259T. 3 R. 24

DUPLICATE

County Carbon

## STATE OF MONTANA

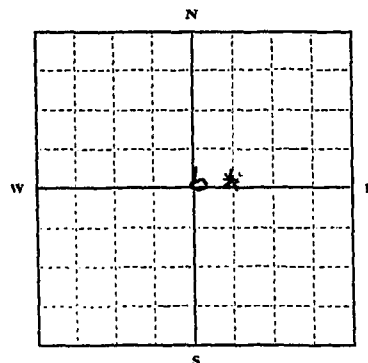
## ADMINISTRATOR OF GROUNDWATER CODE

JAN 26 1968

OFFICE OF STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

L. K. and Marion Boyd  
(Name of Appropriator)Route  
(Address)Polato  
(Town)County of Carbon State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

SW 1/4 NE Sec. 6 T. 3 R. 24

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  
Domestic and Livestock3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
1949  
continuous use since4. The amount of groundwater claimed (in miner's inches or gallons per minute)  
20 gal per minute5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
Lawns and garden6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Pressure Pump7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
19478. The depth of water table  
6 feet9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater  
Drilled well 6" casing - 20 feet deep10. The estimated amount of groundwater withdrawn each year  
550,00011. The log of formations encountered in the drilling of each well if available  
none12. 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  
noneSignature of Owner L. K. BoydDate 12-17-63

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.

42,938

#259

158798

STATE OF MONTANA,  
COUNTY OF CARBON } SS.

Office of the County Clerk & Recorder

I hereby certify that the within  
Water filing was filed  
for record in my office this 10 day  
of Dec. A. D. 1963  
at 2:45 o'clock P. M.

Attest my hand and the seal of  
said County  
FRANK DANICHEK, COUNTY CLERK

Clerk and Recorder

By Long J. Zupar Deputy  
Form 9 200 pd.

RECEIVED

County Carbon

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE JUN 22 1973  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

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

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

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

Owner Philip E. Noel

Address RI, Box 57

Silesia, Mont. 59080

Date well started 5/22/73

completed 5/24/73

For Administrator's Use

File 1409, 188, 749

June 21, 1973

GW 1 10:40 a.m.

Type of well DRILLED  
(Dug, driven, bored or drilled)

Equipment used CABLE  
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

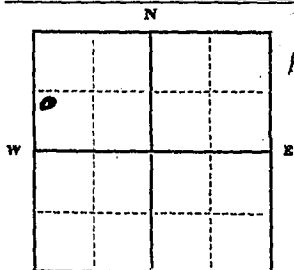
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

\*Describe 2 bedroom household

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

ESTIMATED ANNUAL WITHDRAWAL 20000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>6 3/8</u>	<u>6 3/8</u> <u>18.97</u>	<u>0</u>	<u>46</u>	<u>CUT</u> <u>1/8</u>	<u>40</u>	<u>45</u>



SW 1/4 NW 1/4 Sec 7  
T3S N R. 24E E  
S W

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

Driller's Signature H. D. Drilling - R. J. Long

Driller's Address 0.35 W. W. MILLER LANE

BILLINGS - MONT. LICENSE NO. 188

Top of Ground (Elev. above sea level) 3300

From (Feet)	To (Feet)	
<u>0</u>	<u>2</u>	<u>TOP SOIL</u>
<u>2</u>	<u>20</u>	<u>CLAY-GRAVEL</u>
<u>20</u>	<u>46</u>	<u>SAND-GRAVEL</u>
		<u>WATER AT 35</u>
		<u>20 GPM PER MIN</u>

46 Show exact depth of bottom

53,748

#1409

188749

STATE OF MONTANA }  
COUNTY OF CARMON } ss.

Shoe of the County Clerk & Recorder

I hereby certify that the within

Appropriation was filed  
for record in my office this 21st day

of June A. D. 1973  
at 10.40 o'clock 9 P.

Attest my hand and the seal of  
said County

FRANK DANICHEK, COUNTY CLERK

Clerk and Recorder

Alma E. Kneave Deputy

Page 2 23

43, 516

#177A-157352  
No NUMBER

STATE OF MONTANA, }  
COUNTY OF CARBON } SS.

Office of the County Clerk & Recorder

I hereby certify that the within

Water Appropriation was filed  
for record in my office this 22 day  
of June A.D. 1963  
at 3:45 o'clock P.M.

Attest my hand and official seal of  
said County  
FRANK DANICHEK, COUNTY CLERK

Alvin E. Beaver  
Rec 6 20

File No. \_\_\_\_\_  
DUPLICATE

MONTANA WATER RESOURCES BOARD  
**RECEIVED**  
FEB 18 1970

T. 35 R. 24E 18  
County CARBON

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Notice of Completion of Groundwater  
Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

Owner WILLIAM L. SHARON A. HUYSER Address Rt 1 Box 15 SILESA, MONT  
Driller L-D-DRILLING Address 516 SCOTT LANE BILLINGS, MONT

Date of Notice of Appropriation of Groundwater \_\_\_\_\_

Date well started 10/10/69 Date Completed 12/11/69

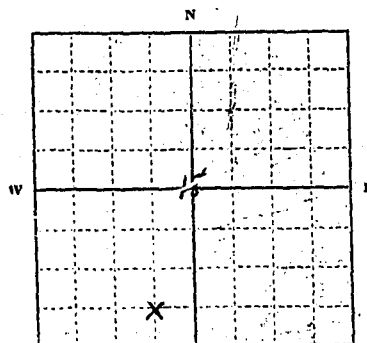
Type of well DRILLED Equipment Used CABLE  
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

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 \_\_\_\_\_)  
TOP SOIL  
SANDY-CLAY  
WATER  
SAND  
MAIN WATER  
AT 24  
SAND-GRAVEL  
GRAVEL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>7 1/2"</u>	<u>6 5/8"</u> <u>19 1/2"</u>	<u>0</u>	<u>29</u>	<u>4 1/2"</u> <u>1/2"</u>	<u>24</u>	<u>27</u>



SE 1/4 SW 1/4 Sec. 18, T. 35, R. 24E  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom. 1775.47  
Doc. No. \_\_\_\_\_  
Filed for record this 13 day of January  
A. D. 19 70, at 10:10 o'clock a. M.

Static Water Level for non-flowing Well 19 feet.

Shut-in Pressure for Flowing Well \_\_\_\_\_

Pumping Water Level BAILER TEST 35 feet at 35 gal. per minute.

Discharge in gal. per min. of flowing well \_\_\_\_\_

How Tested BAILER Length of Test 5 HRS

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

DRIVE SHAFT USED

D.I.P.C. EXT. ABOVE GROUND

MONT 188  
Driller's License Number  
Driller's Signature Ray Senger

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.

46182

#1268 177547

COUNTY OF DEERBORN, SS.

Office of the County Clerk & Recorder

I hereby certify that the within

Appropriation was filed

in my office this 13 day

Feb A. D. 1970

at 10:10 o'clock A. M.

Attest my hand and the seal of

said County

Frank Davidick

County Clerk and Recorder

by \_\_\_\_\_ Deputy

Fees \$ 2.00



## GROUNDWATER INDEX

Page of

County Carbon Twp. 45 Rge. 19E

[illegible]

GW 3  
File No. 792

RECEIVED

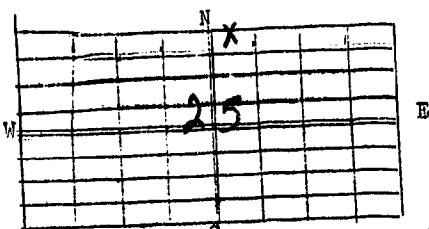
JAN 26 1968

T 48 R 19E - 25  
County of Carbon

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 1900  
Owner Lien, Knute Address Red Lodge  
Contractor (if any) None  
Address of Contractor None  
Date Started 1900 Date Completed 1900



NW 1/4 NE Sec. 25 T 4 R 19  
Indicate point of appropriation and  
place of use, if possible.

Describe means of obtaining groundwater without  
a well "as by sub-irrigation and other natural  
processes". Natural Spring

Quantity of water developed and used with explana-  
tion of method used to measure or estimate such  
amount. If use is intermittent estimate approxi-  
mate lengths of periods of use.  
10 to 15 gals per day, continuously  
for stock & domestic purposes

Signature of Owner Herman A. Horner

Date \_\_\_\_\_

STATE OF MONTANA )  
County of Carbon ) ss.

Having first been duly sworn, depose and say  
that he of lawful age and the appropriator and claimant  
of the order and water right mentioned in the foregoing notice of completion of groundwater  
appropriation without well and the person whose name subscribed thereto, as  
the appropriator and claimant, that he know the contents of said foregoing  
notice and that the matters and things therein stated are true.

Herman A. Horner

Subscribed and sworn to before me, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

Notary Public for the State of Montana  
Residing at \_\_\_\_\_  
My Commission expires \_\_\_\_\_ 19\_\_\_\_

43,399

#792

159500

STATE OF MONTANA,  
COUNTY OF CARBON } SS.

Office of the County Clerk & Recorder.

I hereby certify that the within  
Appropriation was filed  
for record in my office this 31 day  
of Dec A. D. 1963  
at 4:25 o'clock P. M.

Attest my hand and the seal of

Said County  
FRANK DANICHEK, COUNTY CLERK

Olive E. Groves  
County and Recorder Deputy

Fee \$ 2.00

File No.

743

DUPLICATE

T.

45 R 19E

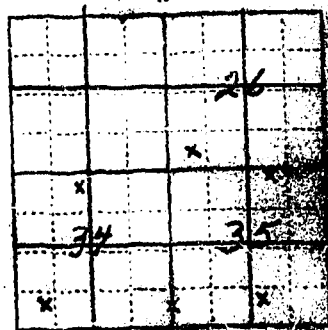
County

Carbon

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation

RECEIVED  
JAN 26 1968



W 1/2 sec 34 E 1/2 sec 35  
SW 1/4 Sec 26 T 45 R 19E

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

Signature of Owner *Helmut Arthur* Date *Dec 31 1963*

Signature of Engineer *Adrian Kue*

Signature of Recorder *Adrian Kue*

Date Completed *Dec 31 1963*

Groundwater appropriation is made by *natural flow springs*

Groundwater appropriation is made by *natural flow springs*

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Groundwater appropriation is made by *natural flow springs*

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.

42836

File No. 743T. 4S R. 19E

DUPLICATE

County Carbon

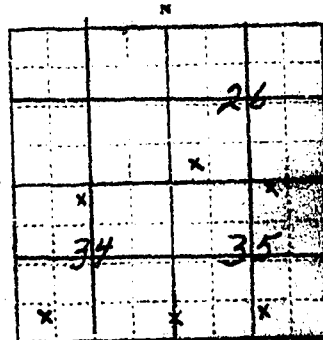
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation

(Under the Groundwater Code, Chapter 10, Montana Code Annotated, 1972)

RECEIVED

JAN 26 1968



W 1/2 sec 34 E 1/2 sec 35  
SW 1/4 sec 26 T 4S R 19E

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

Name of Appropriator or Beneficiary

Name Helmut A. Thurn Address Abbeville

Appropriator of Use

Address of Office

Date 12-31-1963 Date Completed Dec 31-1963

Describe source of groundwater without a well, as by  
"natural flow springs". Indicate type of  
water flow.

natural flow springs

Describe the use of the water, and the amount of water  
used, if the use is intermittent.

Indicate the type of use of the water.

Livestock only,  
continuous use

Signature of Owner Helmut A. ThurnDate Dec 31-1963

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

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicates to the Montana Bureau of Mines and Geology and Quadruplates for the Appropriator.

42836

#743

159146

STATE OF MONTANA, }  
COUNTY OF CARRON } SS.

Office of the County Clerk & Recorder

I hereby certify that the within  
Appropriation was filed  
for record in my office this 31 day  
of Dec A. D. 1963  
at 2:07 o'clock P. M.

Attest my hand and the seal of  
said County

FRANK DANICHEK, COUNTY CLERK

Alvin E. Graves Clerk and Recorder  
by Alvin E. Graves Deputy

Fees \$ 2.00

GWS

File No. 251 MONTANA WATER RESOURCES BOARD

DUPLICATE

JAN 26 1968

T. 48 R. 19ECounty Carbon

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 Dec. 9, 1963

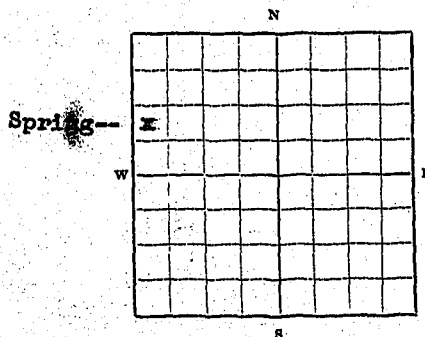
Owner SIGURD EGGEN Address Absarokee, Montana

Contractor (if any) 0-----

Address of Contractor -----

Date Started ----- Date Completed -----

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



SW 1/4 Sec 32 T4 R2E

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

Stock water all year

Signature of Owner Sigurd Eggen

Date Dec. 9, 1963

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

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

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

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

43,105

4.251

158783

STATE OF MONTANA,  
COUNTY OF CARBON SS.

Office of the County Clerk & Recorder

I hereby certify that the within  
Water Approp. was filed  
for record in my office this 9 day  
of Dec. A. D. 1963  
at 2:45 o'clock P. M.

Attest my hand and the seal of  
said County

FRANK DANICHEK, COUNTY CLERK

Clerk and Recorder

By Leroy J. Zupanc Deputy

Per: L. J. Zupanc



Form No. 18  
8-60

RECEIVED  
OCT 3 1961

STATE ENGINEER

T. \_\_\_\_\_ R. \_\_\_\_\_

County CARBON

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

Water Well Log


Owner Miller Bros. Address Absarokee, Mont.

Driller B & H Drilling Address Fishtail, Mont.

Date Started 7-10-61 Date Completed 7-13-61

Location: Sec. 33 T. 4S R. 19E  $\frac{1}{4}$  sec. NWSW

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
Industrial ☐ Drainage ☐ Other \_\_\_\_\_

Casing: 2 ft. to 34 $\frac{1}{2}$  ft. Type Black Size 6 In.

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: 20 feet.

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

Pumping water level 38 feet at 25 gal. per min.

How tested: Bailer

Length of test One Hr.

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

(over)

## Log of Well

[illegible]

Form No. 18  
8-60

RECEIVED  
OCT 3 1961

34

STATE ENGINEER

T. 4S R. 19E

County CARBON

No. 2

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

Water Well Log


Owner HELMERT ARTHUR Address Absarokee

Driller B & H Drilling Address Fishtail, Mont.

Date Started 5-24-61 Date Completed 5-29-61

Location: Sec. 34 T. 4S R. 19E  $\frac{1}{4}$  sec. SE $\frac{1}{4}$ SE $\frac{1}{4}$

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other \_\_\_\_\_

Casing: 2 ft. to 36 $\frac{1}{2}$  ft. Type Black Size 6 in.

Casing: 4 ft. to 60 ft. Type Galv. Liner Size 5 in.

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or screened: Ft. 42 to ft. 52 . Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations \_\_\_\_\_

Static water level, for non-flowing well: 22 feet.

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

Pumping water level 40 feet at 45 ? gal. per min. \_\_\_\_\_

How tested: Baler

Length of test Two Hrs.

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

All we could bale was 45 Gals Per Min. -- 1 foot draw down.

(over)

## Log of Well

[illegible]

Form No. 18  
8-60

RECEIVED  
OCT 3 1961

T. 4 S R. 19E

STATE ENGINEER

County CARBON

No. 1

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

Water Well Log


Owner HELMERT ARTHUR Address Absarokee

Driller B & H Drilling Address Fishtail, Mont.

Date Started 5-22-61 Date Completed 5-24-61

Location: Sec. 34 T. 4S R. 19E  $\frac{1}{4}$  sec. SE $\frac{1}{4}$ NE $\frac{1}{4}$

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
Industrial ☐ Drainage ☐ Other \_\_\_\_\_

Casing: 2 ft. to 15 ft. Type Black Size 6 in.

Casing: 2 ft. to 70 ft. Type Galv. Liner Size 5 in.

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or screened: Ft. 46 to ft. 58 . Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations Torch cuts.

Static water level, for non-flowing well: 11 feet.

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

Pumping water level 52 feet at 12 gal. per min.

How tested: Baler

Length of test One Hr.

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

(over)

## Log of Well

[illegible]

# GROUNDWATER INDEX

Page ef

County Carbon Twp. 45 Rge. 20 E

[illegible]

GW3

File No.

**RECEIVED**

T. 4 So. R. 20 East

DUPLICATE

APR 12 1973

County Carbon,

STATE OF MONTANA  
MONTANA DEPARTMENT OF NATURAL  
RESOURCES AND CONSERVATION  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Notice of Completion of Groundwater Appropriation Without Well**

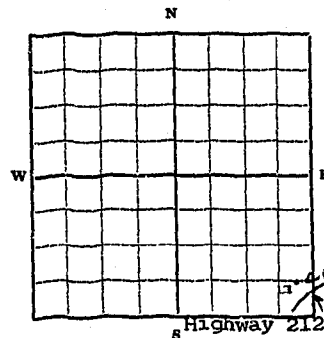
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater April 9, 1973  
Wilbur Dethlefsen and  
Owner Alma Dethlefsen, Address Joliet, Montana.  
husband and wife  
Contractor (if any) -----

Address of Contractor -----

Date Started April 1, 1960 Date Completed November 15, 1971

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Well drilled to depth of 20 feet with water level generally at 16 feet, with 1/4 horse-power electric pump with 3" casing supplying a one inch pipe used for domestic use in home and stock water.



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 10 gal. per min. Two and one-half hours per day of intermittent use.

SE. 1/4 Sec. 5 T. 4S. R. 23E  
Indicate point of appropriation and place of use, if possible.

Doc. No. 1394; 188068  
Filed for record  
this 9th day of April  
A. D. 1973 at 4:55  
o'clock P. M.

Wilbur Dethlefsen  
Signature of Owner Alma Dethlefsen

Date April 9, 1973

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.

52,874



GW3

File No. ....

RECEIVED

T.4 So. R. 20 East

DUPLICATE

APR 12 1973

County Carbon,

STATE OF MONTANA  
MONTANA DEPARTMENT OF NATURAL  
RESOURCES AND CONSERVATION  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

# Notice of Completion of Groundwater Appropriation Without Well

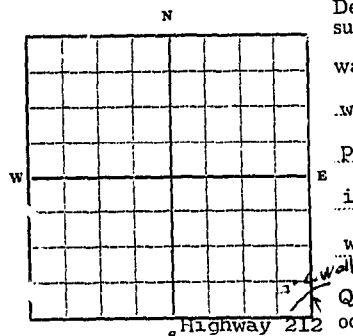
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater April 9, 1973  
Wilbur Dethlefsen and  
Owner Alma Dethlefsen, Address Joliet, Montana.  
husband and wife  
Contractor (if any) .....

Address of Contractor .....

Date Started April 1, 1960 Date Completed November 15, 1971

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Well drilled to depth of 20 feet with water level generally at 16 feet, with 1/4 horse-power electric pump with 3" casing supplying a one inch pipe used for domestic use in home and stock water.



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 10 gal per min.

SE 1/4 Sec. 5 T.4S. R.23E  
Indicate point of appropriation and place of use, if possible.

Two and one-half hours per day of intermittent use.

Doc. No. 1394, 188068  
Filed for record  
this 9th day of April  
A. D. 1973 at 4:55  
o'clock P. M.

Signature of Owner

Wilbur Dethlefsen

Alma Dethlefsen

Date April 9, 1973.

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.

52,874

#1394

188068

STATE OF ARIZONA }  
COUNTY OF CARRSON } SS.

Office of the County Clerk & Recorder

I hereby certify that the within

Appropriation was filed  
of record in my office this 9 day

of April A. D. 1913

at 4:58 o'clock P. M.

Attest my hand and the seal of  
said County

Frank A. Truick  
Clerk and Recorder

By \_\_\_\_\_ Deputy

Fees \$ 2.00

GW 2

File No. \_\_\_\_\_

DUPLICATE

RECEIVED

MAR 29 1972

Approved Stock Form—State Publishing Co., Helena, Montana—48557

T. 45. R. 20 E.

County CarbonMONTANA DEPARTMENT OF NATURAL  
RESOURCES AND CONSERVATIONSTATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD

Top of Ground

(Elev. above sea level \_\_\_\_\_)

0-15 Topsoil &amp; clay

15-26 Brown Sandstone

26-46 Grey Shale

46-52 Sandy Shale

52-81 Hard Grey Sandstone

81-150 Soft Grey Shale

150-178 Grey Shale with  
stringers of sandstone (Water)

178-180 Hard Grey Sandstone

**Notice of Completion of Groundwater  
Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1962

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

Owner Otto MarshallAddress Roberts, Mont.Driller R. E. H. DrillingAddress Sishtail, Mont.

Date of Notice of appropriation of groundwater \_\_\_\_\_

Date well started 9/30/71Date completed 10/7/71Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Rotary

(Churn drill, rotary or other)

Water use:

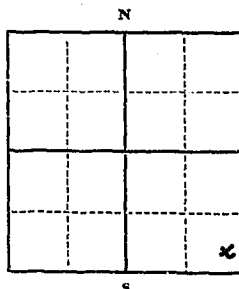
Domestic ☒Municipal ☐Stock ☐Irrigation ☐Industrial ☐Drainage ☐Other ☐

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)
6 3/4	6 5/8 18.47	18 1/4	22	none		
5 5/8	4 1/2 Plastic	8-	180	3/16 Holes	160	175

Doc. No. #1338, 184157

Filed for record

this 28th day of MarchA. D. 19 72, at 10:20o'clock A. M.Sec. 26 T. 45 R. 20 E.

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

Static Water Level for non-flowing well 35 feet.

Shut-in Pressure for Flowing Well \_\_\_\_\_

Pumping Water Level 170 feet at 9 gal. per minute.

Discharge in gal. per min. of flowing well \_\_\_\_\_

How Tested BailerLength of Test 2 hrs.Remarks: (Gravel packing, cementing, packers, type of shutoff) Cemented steel casing

(Continue on reverse side)

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).

Water to be used for a horsesite at Cooney Dam.

Show exact depth of bottom.

180 ft.

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.

No 27

Driller's License Number

Red L. Hagan

Driller's Signature.

50/20

#1338

184157

RECEIVED  
COUNTY CLERK  
OFFICE OF THE CLERK & RECORDER  
COUNTY OF CLACKAMAS, OR.

I hereby certify that the within  
Appropriation was filed  
for record in my office this 28 day  
of March A. D. 19 72  
at 10:20 o'clock A. M.

Attest my hand and the seal of  
said County  
Frank Staudick  
Clerk and Recorder

By \_\_\_\_\_ Deputy  
Fees \$ 2.00

File No. \_\_\_\_\_

MONTANA WATER RESOURCES BOARD  
**RECEIVED**T. 4 S. R. 20 E.

DUPLICATE

County Carbon

LOG

OCT 27 1971

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 \_\_\_\_\_)

0-14 Top soil & clay14-23 Brown Sandstone23-37 Brown Shale37-70 Grey Shale70-85 Hard Grey Sandstone85-156 Soft Grey Shale156-170 Grey Shale with sandstonestringers (Water)170-177 Grey ShaleOwner K. L. Maslanec Address Rt. 2 Billings, Mont.Driller B & H Drilling Address Pishtail, Mont.

Date of Notice of appropriation of groundwater \_\_\_\_\_

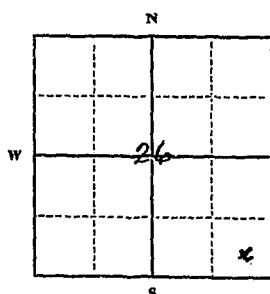
Date well started 9/27/71 Date completed 9/28/71Type of well Drilled Equipment used Rotary  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

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)
6 3/4	6 1/2 inch 18.97	18 1/4	22 1/2	none		
5 5/8	4 1/2 Plastic	6-	177	3/16 Holes	155	170

Doc. No. 1326

Filed for record

this 26 day of OctA. D. 19 71, at 2 45o'clock P.M.Static Water Level for non-flowing well \_\_\_\_\_ 35 feet.

Shut-in Pressure for Flowing Well \_\_\_\_\_

Pumping Water Level 160 feetat 30 gal. per minute.

Discharge in gal. per min. of flowing well \_\_\_\_\_

How Tested RailerLength of Test 2 hrsRemarks: (Gravel packing, cementing, packers, type of shutoff) Cemented surface pipe in.Sec. 36 T. 45 R. 20 E

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

(Continue on reverse side)

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).

Well is for homesite at Cooney Dam.

Show exact depth of bottom.

177 ft.

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.

No. 27

Driller's License Number

Bob L. Hargan  
Driller's Signature.

49271

#1326

182691

COUNTY OF CASS, SS.

Office of the County Clerk & Recorder

I hereby certify that the within

Appropriation was filed

in record in my office this 26th day

of October A. D. 1971

at 2:15 o'clock P. M.

Attest my hand and the seal of  
said County

FRANK DANICHEK, COUNTY CLERK

Clerk and Recorder

Alvin E. Kerner Deputy

Power & 25

5, 625

#1370 186348

IN THE DISTRICT COURT  
COUNTY OF CARRON, SS.

Office of the County Clerk & Recorder

I hereby certify that the within

Appropriation was filed

at my office this 24 day

of Oct A. D. 1972

at 1:45 o'clock P. M.

Attest my hand and the seal of

and County

Frank Stawchuk

Clerk and Recorder

By \_\_\_\_\_ Deputy

Page 3



File No. 729

MONTANA WATER RESOURCES BOARD

RECEIVED

T

R

County

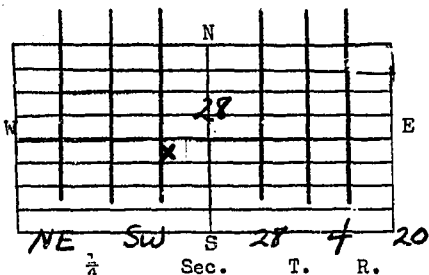
4 20 CARBON

JAN 26 1968

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

1. JAMES T. DUDLEY, of CARBON-ROBERTS County of CARBON  
State of MONTANA have appropriated groundwater according to the Montana laws in  
effect prior to January 1, 1962, as follows:



2. The beneficial use on which the claim is based  
HOUSEHOLD AND LIME TACK

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

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

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 IRRIGATION

6. The means of withdrawing such water from the ground and the location of each well or  
other means of withdrawal IN BASEMENT OF HOUSE AND WITHDRAWING  
BY MEANS OF ELECTRIC PUMP

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

8. The depth of water table 50 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 CASING  
6 - 50 FT

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

11. The log of formations encountered in the drilling of each well if available  
NOT AVAILABLE

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

Date 12-31-63

Signature of Owner

James T. Dudley

STATE OF MONTANA, ) County of Carbon) ss.

Having first been duly sworn, depose and say that  
he of lawful age and the appropriator and claimant of the  
order and water right mentioned in the foregoing declaration of vested groundwater rights  
and the person whose name subscribed thereto, as the appropriator  
and claimant, that he know the contents of said foregoing notice and that the  
matters and things therein stated are true.

Subscribed and sworn to before me, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

Notary Public for the State of Montana.

Residing at \_\_\_\_\_

My Commission expires \_\_\_\_\_

43036

# 729

159432

STATE OF MONTANA }  
COUNTY OF CARBON } SS.

Office of the County Clerk & Recorder

I hereby certify that the within  
Appropriation was filed  
for record in my office this 31 day  
of Dec A. D. 1963  
at 1:17 o'clock P. M.

Attest my hand and the seal of  
said County  
FRANK DANICHEK, COUNTY CLERK

Clerk and Recorder  
By Oliver E. Givens Deputy

Fee \$ 2.00

GW 3  
File No. 730

MONTANA WATER RESOURCES BOARD

RECEIVED

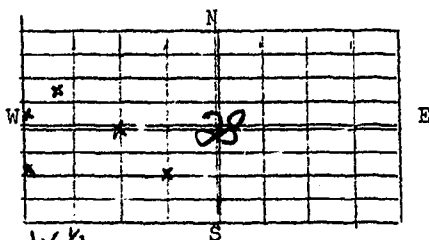
JAN 26 1968

T 4 R 20  
County of Carbon

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 1900  
Owner James T. Dudley Address Shaw Creek St. - Columbus Mont  
Contractor (if any) NONE  
Address of Contractor NONE  
Date Started 1900 Date Completed 1900



W 1/2 S 28 T 4 R 20  
Indicate point of appropriation and place of use, if possible.

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

FREE FLOWING

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

5 GAL PER MINUTE

Signature of Owner James T. Dudley  
Date 12-31-63

STATE OF MONTANA )  
County of Carbon ) ss.

Having first been duly sworn, depose and say that he of lawful age and the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation without well and the person whose name subscribed thereto, as the appropriator and claimant, that he know the contents of said foregoing notice and that the matters and things therein stated are true.

Subscribed and sworn to before me, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

Notary Public for the State of Montana  
Residing at \_\_\_\_\_  
My Commission expires \_\_\_\_\_ 19\_\_\_\_

42037

#730

159433

STATE OF MONTANA, }  
COUNTY OF CARBON } SS.

Office of the County Clerk & Recorder

I hereby certify that the within

Appropriation was filed  
for record in my office this 31 day  
of Dec A. D. 19 63  
at 1:20 o'clock P. M.

Attest my hand and the seal of  
said County

FRANK DANICHEK, COUNTY CLERK  
Clerk and Recorder

By Alvin E. Givens Deputy

Fees \$ 2.00

File No. 871-133-110

DUPLICATE JAN 26 1968

T. 4 South R. 20 East

County Carbon

STATE OF MONTANA

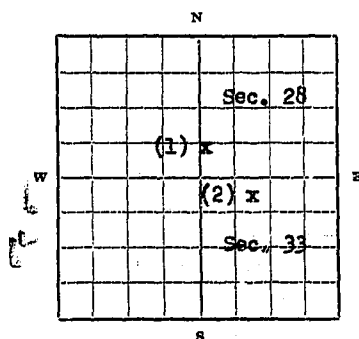
ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

1. HERMAN A. HOINESS of Red Lodge  
 (Name of Appropriator) (Address) (Town)  
 County of Carbon State of Montana  
 have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

(1) SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  Sec. 28(2) NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 33 T. 4S. R. 20E

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 .....  
 (1) and (2) Stock water.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been (1) and (2) 1902, continuous.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) (1) 500 gallons per day, (2) same.

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 (1) and (2) Natural flow into cut off tank.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater ..... Not applicable.

8. The depth of water table ..... 5 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 ..... Not applicable.

10. The estimated amount of groundwater withdrawn each year 182,500 gallons, (1) and (2).

11. The log of formations encountered in the drilling of each well if available ..... Not applicable.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record ..... Not applicable.

Signature of Owner

Date 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.

43,202

#871

159579

STATE OF MONTANA  
COUNTY OF CARBON } SS.

Office of the County Clerk & Recorder

I hereby certify that the within

Appropriation was filed  
in record in my office this 31 day  
of Dec A. D. 1963  
at 7:04 o'clock P. M.

Attest my hand and the seal of

said County

FRANK DANICHEK, COUNTY CLERK

Clerk and Recorder

Alvin E. Hunter Deputy

2.00

GW 3  
File No. 869

RECEIVED

T 4 R 20  
County of Carbon

JAN 26 1963

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)

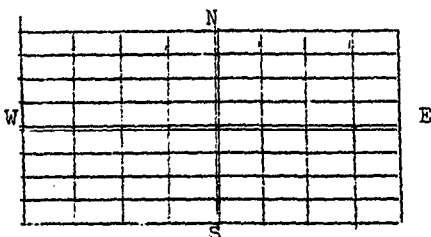
Date of Appropriation of Groundwater 1939

Owner Waino A. Joki Address Red Lodge Mont

Contractor (if any) none

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_



1/4 Sec. 29 T 4 R 20  
Indicate point of appropriation and  
place of use, if possible.

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

Natural flow from Springs  
for cattle

Quantity of water developed and used with explana-  
tion of method used to measure or estimate such  
amount. If use is intermittent estimate approxi-  
mate lengths of periods of use

not measured

Signature of Owner Waino A. Joki

Date Dec 31 1963

STATE OF MONTANA )  
County of Carbon ) ss.

Having first been duly sworn, depose and say  
that he of lawful age and the appropriator and claimant  
of the order and water right mentioned in the foregoing notice of completion of groundwater  
appropriation without well and the person whose name subscribed thereto, as  
the appropriator and claimant, that he know the contents of said foregoing  
notice and that the matters and things therein stated are true.

Subscribed and sworn to before me, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

Notary Public for the State of Montana  
Residing at \_\_\_\_\_  
My Commission expires \_\_\_\_\_ 19\_\_\_\_

43,292

#869

159577

STATE OF MONTANA  
COUNTY OF CARBON } SS.  
Office of the County Clerk & Recorder

I hereby certify that the within  
Appropriation was filed  
for record in my office this 31 day  
of Dec A. D. 1963  
at 7:00 o'clock P. M.

Attest my hand and the seal of  
said County

FRANK DANICHEK, COUNTY CLERK

Clerk and Recorder

Alice E. Givens Deputy

2.00



Civil  
File No.

868

STATE OF MONTANA  
RECEIVED

T

R

29

County

JAN 26 1968

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

1. Waino A. Jaki of Red Lodge County of Carbon  
State of Montana have appropriated groundwater according to the Montana laws in  
effect prior to January 1, 1962, as follows:

	N	
W		E
	S	

$\frac{1}{4}$

Sec. 29 T. 4 R. 20

2. The beneficial use on which the claim is based

Household use and Cattle

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

Feb 1947

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

5 gpm

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

Not used

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

Pump

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

1947

8. The depth of water table

35 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

Billed well 85 ft deep

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

Date

Signature of Owner

Waino A. Jaki

STATE OF MONTANA, ) County of Carbon) ss.

Having first been duly sworn, depose and say that  
he of lawful age and the appropriator and claimant of the  
order and water right mentioned in the foregoing declaration of vested groundwater rights  
and the person whose name subscribed thereto, as the appropriator  
and claimant, that he know the contents of said foregoing notice and that the  
matters and things therein stated are true.

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

Notary Public for the State of Montana.  
Residing at  
My Commission expires

43,291

#868

159576

STATE OF MICHIGAN  
COUNTY OF CARBON  
Office of the County Clerk & Recorder

I hereby certify that the within  
Appropriation was filed  
for record in my office this 31 day  
of Dec A. D. 1963  
at 6:58 o'clock P. M.

Attest my hand and the seal of  
said County

FRANK DANICHEK, COUNTY CLERK

Alvin E. Givens Clerk and Recorder

Fee \$ 2.00

GW 2

RECEIVED

Approved Stock Form—State Publishing Co., Helena, Montana—48557

File No.

JUL 22 1972

T 4 S. R 20 E.

DUPLICATE

County Carbon

LOG

MONTANA DEPARTMENT OF NATURAL  
RESOURCES AND CONSERVATIONSTATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD

Top of Ground

(Elev. above sea level 4300)

0-2 Top Soil

2-17 Gravel &amp; Sand

17- 20 Soft Brown clay

20-56 Grey Shale thin layers  
of sandstone (Water on top  
of very hard shale) at 56 ft.

56-69 Hard Grey Shale

69-85 Grey shale with thin  
layers of sandstone.

85-90 Very Hard Shale

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

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

Owner Fish & Game Commission Address Billings, MontanaDriller BSH Drilling Address Fishtail, Montana

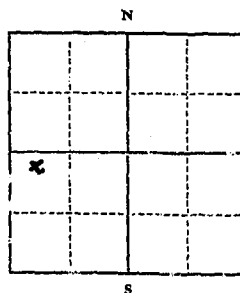
Date of Notice of appropriation of groundwater

Date well started 5/27/71 Date completed 6/3/71Type of well Drilled Equipment used Katana Churn  
(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
7 5/8 6 inch	6 5/8 18.97	1+	41	None		
	4 1/2 Plastic 200 psi	10-	90	3 1/16 Holes	50 75	60 85

Doc. No. #1356-135211  
 Filed for record  
 this 20th day of July  
 A. D. 19 72, at 10:20  
 o'clock P.M.



1/4 Sec. 35 T. 45. R. 20E.  
 Indicate location of well and  
 place of use, if possible. Each  
 small square represents 40  
 acres.  
cemented 33 ft of surface pipe with 8 sacks of cement.

Static Water Level for non-flowing well  
11 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 55 feetat 7 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Soiler & Test PumpLength of Test 4 hrsRemarks: (Gravel packing, cementing, pack-  
ers, type of shutoff)Drilled 33 ft with rotary 7 5/8hole. Then set pipe with cabletools drive pipe to 41 ft & cement

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state  
number of acres and location or other data (i.e.: Lot, Block and Addi-  
tion).This well is for Recreation Area at Cooney Reservoir.

Show exact depth of bottom.

90 ft.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.

No 37

Driller's License Number

Ped L. Hargan  
Driller's Signature.

50,983

#1356

185211

STATE OF MINNESOTA }  
COUNTY OF CARLTON } SS.

Office of Co. County Clerk & Recorder

I hereby certify that the within

Appropriation was filed  
for record in my office this 20 day  
of July A. D. 1912  
at 10:20 o'clock A. M.

Attest my hand and the seal of  
said County  
Frank Davidlek  
Clerk and Recorder

by \_\_\_\_\_ Deputy

Fees \$ 2.00

RECEIVED

DRILLER'S LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner Mildred Mikala

Address Bozeman, Montana

Date well started July 10, 1970  
August 10, 1970

completed Aug

For Admin. Use  
File 18043  
Approved 7, 1970  
2:10 P.M.

Type of well Drill (Dug, driven, drilled)

Equipment used Cable Drill (Cable tool) (Churn drill, rotary, or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

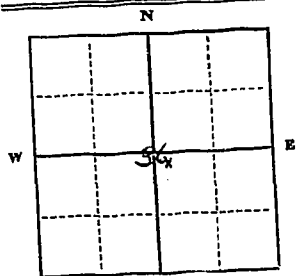
Industrial ☐ Drainage ☐ Other ☒ Garden/Lawn ☐

Trailer Court

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS
8 in	none			Kind Size From (Feet) To (Feet)



N.W. 1/4 SE 1/4 Sec. 36  
T. 4 S. R. 20 E.

Static water level 132 ft.\*  
Pumping water level 132 ft.\*  
at 132 gallons per minute,  
measured 132 minutes after pumping  
began.

\*Measured from ground level.

Well developed by 132 hours.

Power 132 HP

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

Well is unproductive  
making approx. 11 gal.  
per hour

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

Driller's Signature Russell H. Toland

Driller's Address Box 116, Bozeman, Montana

LICENSE NO. 132

From (Feet)	To (Feet)	
0	5	soil
5	25	brown sandstone
25	45	lime shale
45	60	gray shale
60	165	gray sandstone
165	195	gray shale
195	200	gray shale hard
200	244	gray sandstone very hard
244	250	dark gray shale (clay)
250	255	gray shale very hard
255	255	dark gray shale
255	255	gray lime stone
255	255	gray sand stone hard
255	255	gray shale
255	255	gray sandstone hard
255	255	gray shale

311 Show exact depth of bottom

47863

#129 44-0043

STATE OF MONTANA }  
COUNTY OF CARBON } SS.

Office of the County Clerk & Recorder

I hereby certify that the within  
Appropriation was filed  
for record in my office this 7 day  
of Dec A. D. 1970  
at 2:10 o'clock P. M.

Attest my hand and the seal of  
said County.

Frank Drueck  
Clerk and Recorder

By \_\_\_\_\_ Deputy

Fees \$ 2.00

File No. 594 MONTANA WATER RESOURCES BOARDT. 4 S R. 20 E

DUPLICATE

County CARBON**RECEIVED**

JAN 28 1968

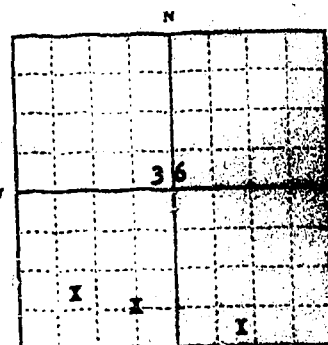
STATE OF MONTANA

APPROVED STOCK FORM

SECTION OF PLACES

**Notice of Completion of Appropriation**

(Under Section 36, T. 4 S., R. 20 E., Carbon County, Montana)

SE $\frac{1}{4}$  and  
S $\frac{1}{2}$ SW $\frac{1}{4}$ 

Sec. 36 T. 4 S. R. 20 E.

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

Date of Appropriation 12/30/63  
 Name RACHEL WALLILA Address Roberts, Montana  
 Owner Rachel Wallila  
 Date of Completion 12/30/63  
 Date Completed 12/30/63

Point of appropriation is groundwater which is used by  
the owner for stock water. Nature of use stock  
water. Quantity varies according to water supply.

Used from April 1, to October 15 according to  
 supply. Depth unknown.

Amount of appropriation is one acre and is used for stock  
water.

Amount of appropriation is one acre and is used for stock  
water. Quantity varies according to water supply.  
 Used from April 1, to October 15 as  
 available.

Signature of Owner Rachel Wallila  
 Date 12/30/63

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, Montana; duplicate to the State Department of the Montana Bureau of Mines and Geology and duplicate to the appropriate agency.

43,925

36

File No. 594  
DUPLICATE

**RECEIVED**

JAN 26 1968

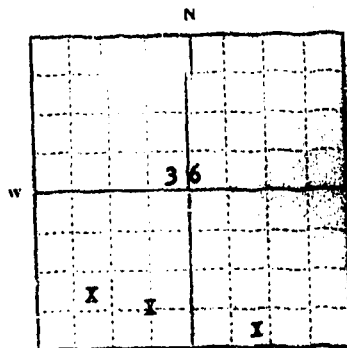
T. 4 S. R. 20 E  
County CARBON

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Notice of Completion of Groundwater Appropriation**

(Under Chapter 10, Montana Code Annotated, 1972)

Date of Appropriation 12/30/63  
Owner RACHEL WALLILA Roberts, Montana  
Contractor (if any) None  
Address of Contractor None  
Date Completed None



SE 1/4 and  
SW 1/4

1/4 Sec. 36 T. 4 R. 20

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

Describe means of obtaining groundwater without a well, as by  
artesian flow, natural "rockness", leakage, depth to  
water when applicable, open springs used for stock  
water. Quantity varies according to water supply.

Used from April 1, to October 15 according to  
supply. Depth unknown.

Quantity of water diverted and used, and combination of methods  
used to measure or estimate work done. If use is intermittent

estimate approximate lengths of periods of use.

Open springs used for stock water. Quantity  
varies. Used from April 1, to October 15 as  
available.

Signature of Owner Rachel Wallila  
Date 12/30/63

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, and one to the Montana  
Bureau of Mines and Geology and Groundwater for the Appropriator.

43,925



#594

159285

STATE OF MONTANA )  
COUNTY OF CARBON ) SS.

Office of the County Clerk & Recorder

I hereby certify that the within  
Appropriation was filed  
for record in my office this 38 day  
of Dec A. D. 1963  
at 3:12 o'clock P. M.

Attest my hand and the seal of  
said County  
FRANK DANICHEK, COUNTY CLERK

Clerk and Recorder  
By Allen E. Graves Deputy

Fees \$ 2.00

## GROUNDWATER INDEX

Page      of     County Cass Twp. 4 S Rge. 21 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
1	Ole Leland	GW 3	159356	
2	Mitchell Thomas	GW 3	159368	
2	Gustav Anderson	GW 3	158970	
5	Frank Haugland	GW 2	179289	
7	Ronald H. Hook	GW 2	170037	
7	Ronald D. Hook	GW 3	159330	
7	Winta Hook	GW 3	159331	
9	Charles Deschumacher	GW 3	159002	
11	Margit Anderson	GW 3	158937	
11	George E. Everts	GW 3	158816	
12	Ludwig Anderson	GW 3	165163	
12	Ludwig Anderson	GW 3	166020	
12	Ludwig Anderson	GW 4	158939	
12	Ludwig Anderson	GW 2	165162	
12	George Everts	GW 2	158815	
12	Margit Anderson	GW 3	158936	
12	Ludwig Anderson	GW 3	158938	
13	John Dukonich	GW 4	159310	
13	Helge & Norman Anderson	GW 4	159328	
13	John Dukonich	GW 3	159311	
14	Willbert & Flora Schanck	GW 3	159276	
17	Roy A. Brickman	GW 3	159329	
18	Johnelda Saarela	GW 3	159092	
19	Phil Hovonen	GW 3	159282	
21	Gordon Trauek	GW 2	187421	
21	Edgar Emsel	GW 3	159335	
21	Clarence Johnson	GW 2	186043	
21	Edgar Emsel	GW 4	159334	
22	Clarence Johnson	GW 2	181751	
23	Flora C. Schanck	GW 4	159274	
23	J. C. Foster	1961		
23	Myrtle Cassidy	GW 3	159380	
23	Casson County Cattle Co.	GW 2	179049	
23	Casson County Cattle Co.	GW 2	179048	
23	Casson County Cattle Co.	GW 2	179047	
24	Casson County Cattle Co.	GW 2	179050	
24	Deschumacher & Sons	GW 3	159004	
25	Archie Kingan	GW 2	183316	
25	Lawrence Hughes	GW 4	159619	
25	Deschumacher	GW 2	159005	
25	McKinley & Paul Anderson	GW 4	159387	
25	Archie Kingan	GW 3	168762	
26	Adolf Holand	GW 4	159393	
26	Adolf Holand	GW 3		
27	Art & John Hook	GW 4	159278	
29	James J. McKey	GW 3	159034	

[illegible]

File No. 664  
DUPLICATE 8

Approved Stock Form - State Publication 45-21E

County Carbon

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

ONTARIO WATER RESOURCES BOARD

RECEIVED

JAN 26 1968

Under Chapter 237 Montana Session Laws, 1961

Date of Appropriation of Groundwater

Dec 30-1963

Owner

Ole Island

Address

foliot

Contractor (if any)

Address of Contractor

Date Started

1910

1910

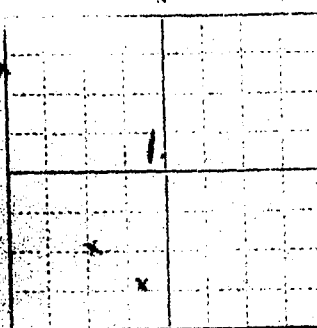
Describe in

sub-irrigation

as a well "as by  
include depth to

water

natural flow springs



SW NW 1 45 21E  
1/4 Sec. T. R.

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

Quantity of water de... used with explanation of method  
used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use.

quantity unknown and  
variable, livestock use  
year around.

Signature of Owner

Ole Island

Date

Dec. 30-1963

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

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

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

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

43,403

#664

159356

STATE OF MONTANA, }  
COUNTY OF CARBON } SS.

Office of the County Clerk & Recorder

I hereby certify that the within

Appropriation was filed  
for record in my office this 30 day  
of Nov A. D. 19 63  
at 6:10 o'clock P. M.

Attest my hand and the seal of  
said County

Frank Danick  
Clerk and Recorder

By \_\_\_\_\_ Deputy

Fees \$ 2.00

GW 3

File No. 656

DUPLICATE

T. 4R. 21County Cadiz

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)

MONTANA WATER RESOURCES BOARD

RECEIVED

JAN 26 1968

Date of Appropriation of Groundwater 1910Owner Mitchell Thomas Address Joliet

Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed 1960

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

3 natural flow springs

#1 - Piped to tank

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

Constant use for stock water

#1 - 30 gal per hour (est)

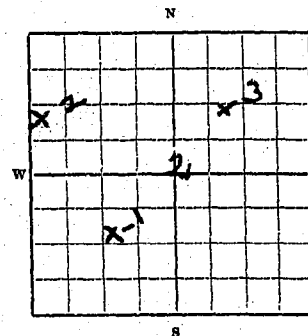
#2 - 20 gal per hour (est)

#3 - 15 gal per hour (est)

Signature of Owner Mitchell Thomas

Date 12-30-63

1/4 Sec. 2 T. 4 R. 21  
Indicate point of appropriation and place of use, if possible.



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.

43763

#656

159348

STATE OF MONTANA,  
COUNTY OF CARBON } SS.

Office of the County Clerk & Recorder.

I hereby certify that the within

Appropriation was filed  
for record in my office this 30 day  
of Dec A. D. 1963  
at 5:50 o'clock P. M.

Attest my hand and the seal of  
said County.

Frank Danichuk  
County Clerk and Recorder

Deputy

Fee \$ 2.00

File No. 345T. 4 R. 21 Sec. 2

DUPLICATE

County Carbon

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 1910Owner Lester AndersonAddress JolietContractor (if any) Kenn ConstructionAddress of Contractor ColumbusDate Started \_\_\_\_\_ Date Completed 1959

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. #1 - dug out for pipe and tank.

#2 #3 #4 natural 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 Constant

#1 - 300 gal Per Day

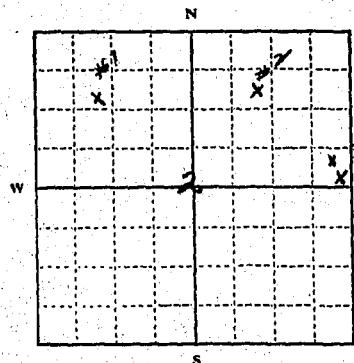
#2 6,000 gal Per Day

#3 100 gal Per Day

#4 100 gal Per Day

Signature of Owner Lester Anderson

Date Dec. 20, 1963



1/4 Sec. 2 T. 4 R. 21

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

#1 - Lot 4 - Sec 2 - 4-21

#2 - Lot 2 - Sec 2 - 4-21

#3 + 4 SE 1/4 NE 1/4 Sec 2 - 4-21

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.

42.818



#345

158970

STATE OF MONTANA.  
COUNTY OF CARBON, S.  
Office of the County Clerk & Recorder.

I hereby certify that the within  
Water filing was filed  
for record in my office this 20 day  
of Dec. A. D. 19 63  
at 11:55 o'clock A.M.

Attest my hand and the seal of  
said County

FRANK DANICHEK, COUNTY CLERK  
Clerk and Recorder

By Harry A. Zupar Deputy  
Recorder 200

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Frank Kauglonis

Address Calumbus, Mont.

Date well started 8/27/70  
completed 8/31/70

Type of well Drilled

Equipment used Churn drill

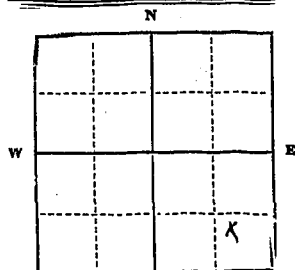
Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☐

\*Describe

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

ESTIMATED ANNUAL WITHDRAWAL 130,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 inch	65/8	18"	9 1/2			
	280					
	4 1/2	4-	124	7/16	65	75
	Plastic			1/2	104	114



SE 1/4 SE 1/4 Sec. 5  
T. 4 S N. R. 21 E E  
3 W

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

Driller's Signature Red L. Hangan

Driller's Address Fishtail, Mont. LICENSE NO. 27

474410

COUNTY Carbon

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level) 5950

From (Feet)	To (Feet)	
0	18"	TOP SOIL
18"	50	13' Lower Sandstone
50	63	Shale
63	124	5' 1/2' Sandstone
		Drilled with a bit
		2' 1/2' water
		all this is

124 Show exact depth of bottom

#1288

179289

CLERK OF DISTRICT COURT  
COUNTY OF COLUMBIA  
Office of the County Clerk

I hereby certify

Appropriation

for record in my office this

of Sept day 10

at 9:45 o'clock A.M.

Attest my hand and seal this

Frank David

Clerk and Recorder

By \_\_\_\_\_ Deputy

Fee \$ 1.00

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—45642

File No. 1198

T 4 R 21

DUPLICATE

County Carbon

LOG JAN 26 1968

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level)

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

(Under Chapter 237, Montana Session Laws, 1961)

0-20 ft Top Soil +

Owner Ronald K. Smith Address Boyd, Mont

Driller B &amp; H Drilling Address Fishtail, Mont

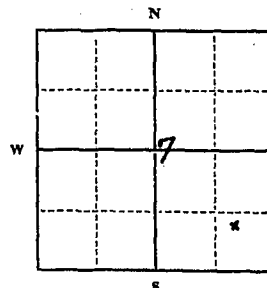
Date of Notice of appropriation of groundwater

Date well started 4/24/67 Date completed 4/26/67

Type of well Drilled Equipment used Churn Drill  
(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)	PENETRATIONS		
				Kind Size	From (Feet)	To (Feet)
6 inch	6 5/8 18.97	1+	40	NONE		

Static Water Level for non-flowing well  
18 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 30 feet

at 45 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Bailer

Length of Test 2 hrs.

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

SE 1/4 Sec. 7, T. 4 R. 21  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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.

55 ft.

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.

NO 27  
Driller's License NumberRad L. Hargan  
Driller's Signature

43,312