**Log of Well**

| Depth, feet From | Depth, feet To | Description of Material Drilled |
|---|---|---|
| 0 | 70 | Yellow Loam & Sandstone |
| 70 | 85 | Coal |
| 85 | 105 | Blue Shale |
| 105 | 149 | Gray Shale |
| 149 | 170 | Blue Gray Shale |
| 170 | 195 | Blue Sandstone |
| 195 | 203 | Blue Shale |

DOC. NO. 120023

WATER WELL LOG NO. 35

State of Montana
County of McCone } ss.
Office of Clerk and Recorder.

I hereby certify that the within instrument was filed in my office on the 29th day of December A. D., 19 59 at 2:15 o'clock P. M., and was duly ~~recorded~~ filed in Book ..... at Page ..... Records of McCone County, Montana.

Clerk and Recorder

By ..... Deputy

Fee none

RECEIVED
JAN 1 1930
STATE ENGINEER

32

T. 17 R. 44

County McCone

# MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

## WATER WELL LOG

Owner Mr. Kingman Hedstrom Address Brockway, Montana

Driller Johnson Water Well Service Address Terry, Mont.

Date Started Dec 16, 59 Date Completed Dec 16, 59

Location: Sec. 32 T. 17 R. 44 ¼ sec. SENE¼

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

Water use: Domestic [ ] Municipal [ ] Stock [X] Irrigation [ ]

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 38½ ft. Type Std. Pipe Size 6"

Casing: 35 ft. to 55 ft. Type Std. Pipe Size 4"

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 35 to ft. 55 Ft. to ft.

Type of screen or perforations Holes

Static Water level, for non-flowing well: 15½ ft. feet.

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

Pumping water level 25 feet at 22 gal. per min. ----

How tested: Bailing

Length of test 1 hr.

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

(over)

## Log of Well

| Depth, feet From | Depth, feet To | Description of Material Drilled |
|---|---|---|
| 0 | 6 | Top Soil & Loam |
| 6 | 30 | Quick Sand |
| 30 | 40 | Blue Shale |
| 40 | 52 | Coal |
| 52 | 55 | Blue Soapstone |

DOC. NO. **120024**

WATER WELL LOG NO. 36

State of Montana }
County of McCone } ss.
~~Office of Clerk and Recorder.~~

I hereby certify that the within instrument was filed in my office on the 29th day of December A. D., 19 59 at 2:20 o'clock P.M., ~~and was duly recorded~~ filed in Book ..... at Page ..... Records of McCone County, Montana.

Clerk and Recorder

By ..... Deputy

Fee none

36

T. 17 R. 44

County Prairie

RECEIVED
AUG 2 1961
STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

## WATER WELL LOG

Owner Mr. A.C. Hedstrom Address Terry, Montana

Driller Henry I Johnson Address Terry, Montana

Date Started July 19, 1961 Date Completed July 26, 1961

Location: Sec. 36 T. 17 R. 44 ¼ sec. S.E.

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

Water use: Domestic [ ] Municipal [ ] Stock [x] Irrigation [ ]

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 58 ft. Type Std. Size 6"

Casing: 46 ft. to 106 ft. Type Std. Size 4"

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 70 to ft. 75 Ft. 95 to ft. 106

Type of screen or perforations Holes

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

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

Pumping water level 75 feet at 12 gal. per min.

How tested: Bailer

Length of test 1 hr.

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

(over)

**Log of Well**

| Depth, feet From | Depth, feet To | Description of Material Drilled |
|---|---|---|
| 0 | 20 | Yellow Sandy Loam |
| 20 | 30 | Brown Quicksand |
| 30 | 45 | Yellow Shale |
| 45 | 50 | Gravel |
| 50 | 75 | Light Blue Soapstone |
| 75 | 90 | Coal (Water) |
| 90 | 106 | Light Blue Shale |

GROUNDWATER INDEX

Page ____ of ____

County McCone Twp. 17N Rge. 45E

| Sec. | Name of Appropriator | Type of Form | County File No. | Remarks |
|---|---|---|---|---|
| 5 | Nor. Pac. Ry. Co. | GW2 | 135188 | |
| 6 | Larson, Herbert | Well Log | 122732 | |
| 6 | " " | GW2 | 126120 | |
| 10 | Langema, James | Well Log | 119273 | |
| 11 | Berry, Harley | GW2 | 138281 | |
| 12 | " " | " 2 | 136984 | |
| 20 | Schmidt, Robert | Well Log | 117697 | |
| 23 | Haglund Ranch, Inc. | " " | 122469 | |
| 25 | Keston, Frank | GW2 | 136109 | |
| 28 | Schmidt, Robert | Well Log | 123166 | |
| 28 | Suko, Gust | GW H | 127127 | |
| 29 | Schmidt, Robert & Pauline | — H | 127287 | |
| 30 | " " " | — H | 127288 | |
| 32 | Haglund Ranch, Inc. | Well Log | 122471 | |
| 32 | Schmidt, Robert | GW2 | 128806 | |

T. 17N., R. 45E.
McCONE COUNTY

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—46805

File No.....

MONTANA WATER RESOURCES BOARD
RECEIVED
MAY 2 4 1969

T 17 R 45

DUPLICATE

County Mc Cone

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

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, as amended)

| | |
|---|---|
| 1 | top soil |
| 35 | yellow clay |
| 28 | yellow sand |
| 16 | gumbo |
| 8 | coal |
| 12 | water sand trace |
| 26 | & gumbo |
| 8 | water sand |
| 6 | gumbo |
| 6 | Water sand 13gpm |
| 4 | gumbo |
| 150 | Show exact depth of bottom. |

Owner ~~Wilbur Larson~~ Northern Pacific Railroad Co. Address ~~Broadway, Mont.~~ St. Paul, Minn.

Driller Ira C. Bond & Sons Address Terry, Mont.

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

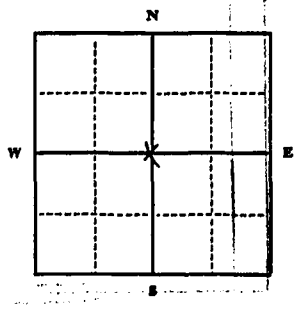
Date well started 4/16/69 Date completed 4/18/69

Type of well drilled (Dug, driven, bored or drilled) Equipment used cable tool (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) |
|---|---|---|---|---|---|---|
| 5 5/8 | 4½ od | 0 | 150 | 3/16 | 126 | 146 |




center 5 17 45
¼ Sec. T. R.

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

Static Water Level for non-flowing well 24 feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level 144 feet at 3 gal. per minute.

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

How Tested bailed

Length of Test 4 hrs.

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

(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).

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.

37
Driller's License Number

Robert Bond
Driller's Signature.

45255

135288

WATER WELL LOG # 672

State of Montana
County of McCone } ss.

Office of Clerk and Recorder.

Filed this 20th day of

May, A. D., 1969

at 11:56 o'clock A. M.

Gloria G. Brennan
Clerk and Recorder

By Mary R. Huckle
Deputy

Fee $2.00

# County of McCone

COMMISSIONERS:
JOHN BREITBACH, Circle
Chairman
JOHN W. WHITE, Wolf Point
ART E. SCHOCK, Vida

OFFICE OF
COUNTY COMMISSIONERS
CIRCLE, MONTANA

GLORIA G. BRENNAN
County Clerk

July 28, 1969

MONTANA WATER RESOURCES BOARD
RECEIVED
JUL 30 1969

State Engineer
Montana Water Resources Board
Sam Mitchell Building
Helena, Montana
59601

Dear Sir:

Mr. J. L. Bishop, Supervisor, Grazing & Cultivation for the Northern Pacific Railway Company, was in our office today to inform us a certain Water Well Log filed by Wilbur L. Larson, Brockway, Montana, as Appropriator, should be corrected to show the Northern Pacific Railway Company, Appropriator.

Would you please correct your copy of Water Well Log No. 672, Document No. 135288, to show the NORTHERN PACIFIC RAILWAY COMPANY as Appropriator. Mr. J. L. Bishop signed the correction we made, as Supervisor.

We have made the necessary corrections on our records.

Thank you.

Yours very truly,

Gloria G. Brennan

Gloria G. Brennan
Clerk & Recorder

GGB:mrk

6

T. 17 R. 45

County McCone

RECEIVED

STATE ENGINEER

# MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

## WATER WELL LOG

Owner Herbert Larson Address Brockway, Montana

Driller Albert & Edward Brost Address Brockway, Montana

Date Started July 14, 1961 Date Completed July 18, 1961

Location: Sec. 6 T. 17 R. 45 ¼ sec. N.E.¼N.E.¼

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: Top ft. to 120 ft. Type Steel Size 4"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 100' to ft. 115' Ft. to ft.

Type of screen or perforations Slots in casing

Static Water level, for non-flowing well: 43' from the top feet.

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

Pumping water level 72' feet at 21 gal. per min. 30

How tested: Baler

Length of test ½ hour

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

Gravel packed water vein

(over)

**Log of Well**

| Depth, feet From | Depth, feet To | Description of Material Drilled |
|---|---|---|
| Top | 32' | Yellow sandy loam |
| 32' | 58' | Sand |
| 58' | 60' | Sand rock |
| 60' | 65' | Coal |
| 65' | 100' | Blue clay |
| 100' | 115' | Water clay |
| 115' | 120' | Blue clay |

122732

Water Well Log #72.

State of Montana } ss
County of Yellowstone }

Filed in Water Well Record

Billings 24th day of August A.D. 19 61

4:25 o'clock P. M.

Clerk and Recorder

By

Fee None

Deputy

GW 2

File No.....

DUPLICATE

T. 17 N R. 45 E

County McCone

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 12 1963
STATE ENGINEER

# Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level.....)

12 yellow shale
2 blue shale
20 yellow shale
12 feet sand rock
6 water sand
2 blue shale

Total depth of well 54 feet

Owner Herbert Larson Address Brockway, Montana

Driller Ira C. Bond Address Terry, Montana

Date of Notice of Appropriation of Groundwater 10/15/63

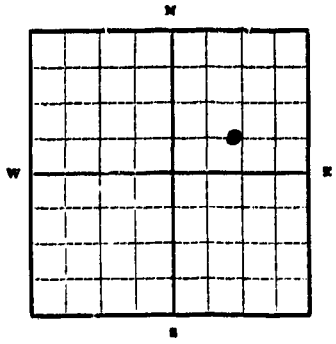
Date well started 10/15/63 Date Completed 10/16/63

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 ☐

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) |
|---|---|---|---|---|---|---|
| 4 4" | 4" ID | surface | 54' | 5/16 | 44 | 52 |




NE¼ Sec. 6 T. 17 R. 45

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

54 Show exact depth of bottom.

Static Water Level for non-flowing Well raises 18 feet feet.

Shut-in Pressure for Flowing Well .....

Pumping Water Level 38 feet at 5 gal. per minute.

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

How Tested bailed Length of Test 2 hours

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

37
Driller's License Number

Ira C. Bond
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 School of Mines and Quadruplicate for the Appropriator.

126720

Water Well Log #241.

State of Montana
County of McCone } ss.

Office of Clerk and Recorder.

Filed this 6th day of November A. D., 1963.

at 10:45 o'clock A. M.

Clerk and Recorder

By Deputy

Fee $2.00

10

T. 17 R. 45

County McCone Co.

RECEIVED
JUL 30 1959
STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

# WATER WELL LOG

Langemo

Owner: James Langemo Address: Brockway Mont

Driller: Henry I Johnson Address: Terry Mont

Date Started: July 23-59 Date Completed: July 25-59

Location: Sec. 10 T. 17 R. 45 ¼ sec. ~~NE~~ SE¼ NE½

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: 0 ft. to 228½ ft. Type 4" stripe Size 4"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 180 to ft. 220 Ft. to ft.

Type of screen or perforations holes

Static Water level, for non-flowing well: 125 feet.

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

Pumping water level 180 feet at 12 gal. per min.

How tested: Bailer

Length of test 1 hr

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

(over)

**Log of Well**

| Depth, feet From | Depth, feet To | Description of Material Drilled |
|---|---|---|
| 0 | 5 | yellow Loam |
| 5 | 12 | Blue Hardpan |
| 12 | 45 | yellow Sandy shale |
| 45 | 65 | Blue shale |
| 65 | 75 | white shale |
| 75 | 77 | Sandrock |
| 77 | 90 | white shale |
| 90 | 95 | Gray Sand |
| 95 | 140 | Blue shale |
| 140 | 185 | Gray Sandy shale |
| 185 | 197 | Coal |
| 197 | 218 | Gray Sandstone |
| 218 | 225 | Blue Shale |

Doc. No. 119273
Water Well Log File No. 26

State of Montana } ss.
County of McCone }

Office of Clerk and Recorder.
Filed this 28th day of
July A. D. 19 59
at 10:45 o'clock A. M.

Clerk and Recorder

By _____ Deputy

Fee none

GW 2

Approved Stock Form—State Publishing Co., Helena, Mont. 4855

File No.....

T 17 R 45

TRIPLICATE

County Co Cone

LOG

RECEIVED JUL 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.....)

1 top soil
9 yellow clay
8 quick sand
6 sandstone
6 gumbo
5 water sand
5 coal 3 ft
12 gumbo
13 water sand 25 gpm

65

Show exact depth of bottom.

Owner Harley Berry Address Brockway, Montana

Driller Ira C. Bond & Sons Address Terry, Montana

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

Date well started 7/7/71 Date completed 7/10/71

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

Doc. No. 13828 Filed for record this 22 day of July A. D. 19 71, at 11:50 o'clock A M.

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 | From (Feet) | To (Feet) |
|---|---|---|---|---|---|---|
| 8" | 6 ld | 00 | 25 | none | | |
| 5 7/8 | 4" plastic | 0 | 65 | 3/16 | 52 | 65 |

N
W E
S

NW 1/4 SE Sec. 11 T. 17 R. 45

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 54 feet at 5 gal. per minute.

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

How Tested bailed

Length of Test 4 hrs.

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

.....(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).

37

Driller's License Number

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, tissue copy to be retained by driller.

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

48799

DOC. #138281

W. Well Log File #696

State of Montana
County of McCone } ss.

Office of Clerk and Recorder.

Filed this 22nd day of

July, A. D. 19 71

at 11:50 o'clock A. M.

Gloria G. Brennan
Clerk and Recorder

By Mary R. Kuckler
Deputy

Fee $2.00

GW 2

File No. 289

DUPLICATE

T. 17 N R. 4 E

County McCone

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED DEC 19 1963 STATE ENGINEER

# Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level.....)

0 to 10 Yellow shale
10 to 21 sand and gravel, Little water
21 to 58 grey shale
58 to 62 coal
62 to 66 grey shale, streaks of sand, Little water
66 to 96 brown shale
96 to 105 water sand

105

Show exact depth of bottom.

Owner Harley Berry Address Brockway, Montana

Driller Ira C. Bond Address Terry, Montana

Date of Notice of Appropriation of Groundwater .....

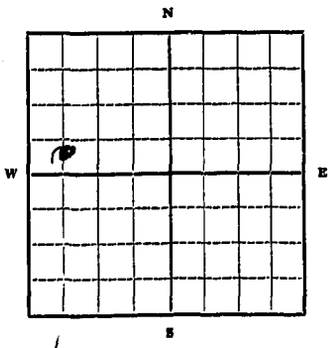
Date well started 10/21/63 Date Completed 10/24/63

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 ☐

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) |
|---|---|---|---|---|---|---|
| 7" | 7" OD 25 # | surface | 23 | none | | |
| 5 5/8 | 4" ID 10.89# | 20 | 105 | 5/16 burned | 90 | 101 |




SW ¼ NW Sec. 12 T 17 R 4 E

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 35 feet.

Shut-in Pressure for Flowing Well .....

Pumping Water Level 30 feet at 5 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, 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) .....

37
Driller's License Number

Ira C. Bond
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 School of Mines and Quadruplicate for the Appropriator.

10407

DOC. NO. 126984

WATER WELL LOG FILE NO. 289

HARLEY BERRY

TO

THE PUBLIC

STATE OF MONTANA )
)SS
COUNTY OF McCONE))

OFFICE OF CLERK AND RECORDER

Filed this 10th day of December 1963

at 11:35 o'clock a.m.

Clerk & Recorder

FEE $ 2.00

T. 17 — R. 45 20

County Mc Cone

RECEIVED
SEP 4 1958
STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

## WATER WELL LOG

| | | | |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| X | | | |

Owner Robert Schmidt Address Watkins, Montana

Driller Bob Haggerty Address Circle Montana

Date Started May 20, 1958 Date Completed May 24, 1958

Location: Sec. 20 T. 17 R. 45 ¼ sec. S. W.

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: 0 ft. to 230 ft. Type steel Size 4 in.

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 194 to ft. 230 Ft. to ft.

Type of screen or perforations steel Casing drilled

Static Water level, for non-flowing well: 50 ft. feet.

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

Pumping water level 126 feet at 16 gal. per min.

How tested: Bailer

Length of test 45 min

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

Gravel Packing

(over)

**Log of Well**

| Depth, feet From | Depth, feet To | Description of Material Drilled |
|---|---|---|
| 0 | 40 | yellow |
| 40 | 45 | Coal |
| 45 | 50 | sand ~~H 2 gal~~ H 20 gal |
| 50 | 128 | Blue Clay |
| 128 | 138 | Coal |
| 138 | 230 | sand H 20 |

Robert Schmidt

-TO-

The Public

Doc# 117697

State of Missouri
County of McCoon } ss.

Office of Clerk and Recorder.

Filed this 3rd day of September A. D. 1958 at 9:00 o'clock A. M.

Clerk and Recorder

By _____ Deputy

No fee.

23

Form No. 18
8-60

T. 17 R. 45

County ~~PRAIRIE~~

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JUN 26 1961
STATE ENGINEER

WATER WELL LOG

Owner HAGLUND RANCH, INC. Address BROCKWAY, MONT.

Driller BILL JOHNSON Address TERRY, MONT

Date Started JULY 1947 Date Completed JULY 1947

Location: Sec. 23 T. 17 R. 45 ¼ sec. NW¼ of NW¼

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other

Casing: 0 ft. to 130 ft. Type STEEL Size 5 INCH

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 100 to ft. 130. Ft. to ft.

Type of screen or perforations BURNED WITH ACETYLENE TORCH

Static Water level, for non-flowing well: 40 FEET FROM TOP - feet.

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

Pumping water level 100 feet at 9 gal. per min.

How tested: BAILED

Length of test 2 MINUTES

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 | 130 | UNKNOWN |

DOC. NO. 122469

WATER WELL LOG # 63

State of Montana
County of McCone } ss.

Office of Clerk and Recorder.

Filed this 22nd day of June A. D. 1961 at 9:00 o'clock A. M.

Clerk and Recorder

By ..... Deputy

Fee none

GW 2

File No.

TRIPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED
DEC 15 1969

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

T 17 R 45 S 25

County McCone

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

# Notice of Completion of Groundwater Appropriation by Means of Well

**DEVELOPED AFTER JANUARY 1, 1962**

(Under Chapter 237, Montana Session Laws, 1961)

**LOG**

| | |
|---|---|
| 0 | Top of Ground |
| | (Elev. above sea level 2400) |
| 34 | Soup |
| 41 | Brown |
| 48 | Yellow |
| 53 | Grey |
| 60 | Sand [illegible] |
| 74 | Black [illegible]ater Sand |
| 75 | Rock |
| 80 | Grey |

Show exact depth of bottom.

Owner Frank Easton Address Brockway, Montana

Driller [illegible] Address [illegible], Montana

Date of Notice of appropriation of groundwater November 29, 1969

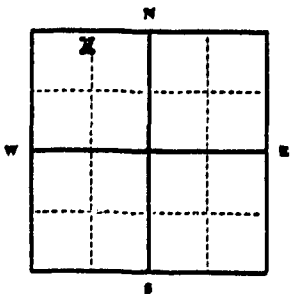
Date well started Nov. 28, 1969 Date completed December 2, 1969

Type of well Drilled (Dug, driven, bored or drilled) Equipment used Cable Tool (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-inch | 4½" OD 11# | 0 | 80 | Slotted | 60 | 74 |




NW¼ Sec. 25 T 17 R 45

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

Static Water Level for non-flowing well 52 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 75 feet at 3 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Bailer

Length of Test 8 hours

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

(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).

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.

[illegible]63
Driller's License Number

Clinton C Whitner
Driller's Signature.

45975

136109

WATER WELL LOG FILE #683

FRANK KASTEN, JR.
BROADWAY, MONTANA

TO: THE PUBLIC

STATE OF MONTANA
COUNTY OF McCONE,SS

The within instrument was filed for record on December 11th, 1969 at 2:50 o'clock, P. M., and is duly recorded in Book Filed, records of McCone County.

Gloria G Brennan
County Clerk & Recorder

by: Mary R. Kuckler
Deputy

Fee: $2.00 Paid

28

T. 17 R. 45

County McCone

RECEIVED
DEC 1961
STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

# WATER WELL LOG

Owner Mr. Robert Schmidt Address Brockway, Mont.

Driller Johnson Water Well Service Address Terry, Mont.

Date Started Nov. 21, 61 Date Completed Nov. 25, 61

Location: Sec. 28 T. 17 R. 45 ¼ sec. SE

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: 0 ft. to 227 ft. Type std. Size 4"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 140 to ft. 157 Ft. 215 to ft. 227

Type of screen or perforations Holes

Static Water level, for non-flowing well: 145 feet.

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

Pumping water level 200 feet at 6 gal. per min.

How tested: Bailer

Length of test 2 hr.

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

(over)

**Log of Well**

| Depth, feet From | Depth, feet To | Description of Material Drilled |
|---|---|---|
| 0 | 15 | yellow loam |
| 15 | 25 | yellow shale |
| 25 | 30 | coal |
| 30 | 70 | blue soapstone |
| 70 | 85 | yellow sandstone |
| 85 | 145 | blue soapstone |
| 145 | 157 | coal |
| 157 | 209 | blue soapstone |
| 209 | 217 | coal |
| 217 | 227 | blue soapstone |

Water Well Log #80

123166

State of Ohio } ss
County of

Filed and Recorded

1st day of December A. D. 19 61

9:30 o'clock A. M.

Clerk and Recorder

By

Deputy

Fee None

Approved Stock Form—State Publishing Co., Helena, Montana—38496

File No. 368

T. 17 N R. 45 E

DUPLICATE

County McCone

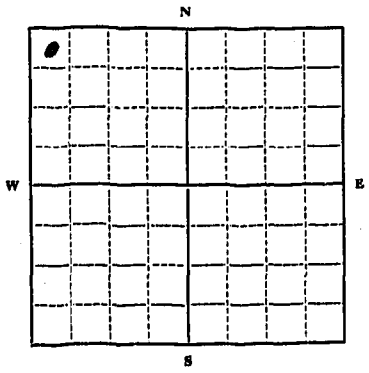
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 16 1964
STATE ENGINEER

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I Gust Suko (Name of Appropriator), of - (Address) Brockway, Montana (Town)
County of McCone State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:




NE ¼ NE Sec. 28 T. 17 R. 45

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
Use for Home and Livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
June - 1921

4. The amount of groundwater claimed (~~[illegible]~~s or gallons per minute) 10 gals per minute

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
June 1921

8. The depth of water table 160 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
6 inch galv. casing to bottom at 180 feet

10. The estimated amount of groundwater withdrawn each year 262,800 gals per year

11. The log of formations encountered in the drilling of each well if available
Only log available is gray loam, coal and water-bearing 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
None available

Signature of Owner Gust Suko

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.

36339

DOC. NO. 127127

WATER WELL LOG FILE NO. 368

GUST SUKO

TO

THE PUBLIC

STATE OF MONTANA )
)SS.
COUNTY OF McCONE )

OFFICE OF COUNTY CLERK & RECORDER.

Filed this 30th day of Dec. 1963, A.D.

at 12:30 o'clock a.m.

COUNTY CLERK

FEE $ 2.00

GW

Approved Stock Form—State Publishing Co., Helena, Montana—38496

File No. 526

T. 17 N R. 45 E 29

DUPLICATE

County McCone

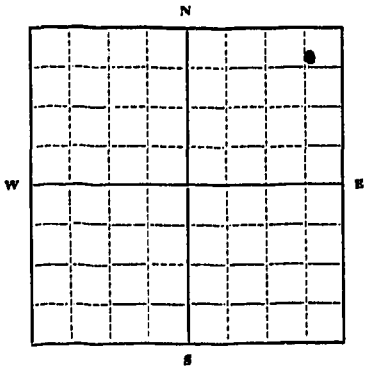
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 16 1964
STATE ENGINEER

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Robert & Lauvine Schmidt (Name of Appropriator), of (Address) Brockway (Town)
County of McCone State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:




NE ¼ NE Sec. 29 T. 17 R. 45

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: stock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Oct. - 1951
6 months out of year.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 5 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
no irrigation

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
windmill & gas engine & pump jack

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Oct. - 1951

8. The depth of water table: 30 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:
type - drilled 4 in. casing 203 ft. depth

10. The estimated amount of groundwater withdrawn each year: 324,000 gal. minimum

11. The log of formations encountered in the drilling of each well if available:
not available

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

Signature of Owner: Robert Schmidt Lauvine Schmidt

Date: Dec. 31, 1963

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

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

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

36498

Doc. No. 127287

Water Well Log # 526

Robert & Laurine Schmidt

To

The Public

State of Montana }
County of McCone } ss

OFFICE OF COUNTY CLERK & RECORDER

Filed this 2nd day of January, 1964, A. D.,

at 8:17 A. M.

Glenway E. Tipton

County Clerk

Fee: $2.00

GW

Approved Stock Form—State Publishing Co., Helena, Montana 88496

File No. 527

T. 17 N R. 45 E 30

DUPLICATE

County McCone

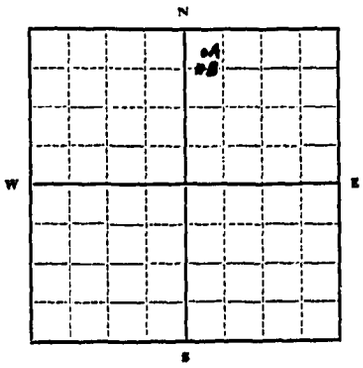
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 16 1964
STATE ENGINEER

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Robert + Lorraine Schmidt (Name of Appropriator), of Brockway (Town) (Address)
County of McCone State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:




NW¼NE Sec. 30 T. 17 R. 45

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 stock water + household use + garden irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been A - May 1944 B - June 1949

4. The amount of groundwater claimed (in miner's inches or gallons per minute) A + B all the water that is needed for stock + household use + garden irrigation. Has never been pumped dry

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal A - electric motor + pump jack B - jet + gas engine + pump jack

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater A - May 1944 B - June 1949

8. The depth of water table A - 50 ft. B - 18 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 A - Drilled 4 in. casing 145 ft. depth B - hand dug 5 ft. casing galvanized 30 ft. depth

10. The estimated amount of groundwater withdrawn each year unknown + unlimited

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

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

Signature of Owner Robert Schmidt - Lorraine Schmidt

Date Dec. 31, 1963

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

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

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

36499

Doc. No. 127288

Water Well Log # 527

Robert & Laurine Schmidt

TO

The Public

State of Montana )
) ss
County of McCone )

OFFICE OF COUNTY CLERK & RECORDER

Filed this 2nd day of January, 1964, A. D.,

at 8:18 A. M.

County Clerk

Fee: $2.00

Becker

Form No. 18
8-60

32

T. 17 N R. 45 E

County McCone

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JUN 26 1961
STATE ENGINEER

WATER WELL LOG

Owner HAGLUND RANCH INC Address BRECKENRIDGE, MONT.

Driller BILL JOHNSON Address TERRY, MONT

Date Started OCT 1938 Date Completed OCT 1938

Location: Sec. 32 T. 17N R. 45E ¼ sec. SE to NWX

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other

Casing: 0 ft. to 200 ft. Type STEEL Size 5"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations unknown

Static Water level, for non-flowing well: 60' from bottom feet.

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

Pumping water level 20' feet from bottom gal. per min. 4

How tested: Pump

Length of test all winter

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

unknown

(over)

Log of Well

| Depth, feet | | Description of Material Drilled |
|---|---|---|
| From | To | |
| 0 | 200 | Unknown |
| | | DOC. NO. 122471 |
| | | WATER WELL LOG # 65 |
| | | State of Montana } ss. County of McCone |
| | | Office of Clerk and Recorder. |
| | | Filed this 22nd day of June A. D. 1961 |
| | | at 9:05 o'clock a M. |
| | | Clerk and Recorder |
| | | By Deputy |
| | | Fee none |

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—40472

File No. 6 16

T 17 N R 45 E 32

DUPLICATE

County McCone

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1965
STATE ENGINEER

# Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level _____)

16 feet yellow shale
18 feet gray shale
2 feet of coal
8 feet blue shale
2 feet water sand one gal.
42 feet gray shale
3 feet blue shale
15 feet water sand
8 gal per min.
4 gray sha le
bottom

110 feet deep

110

Show exact depth of bottom.

Owner Robert Schmidt Address Brockway, Montana

Driller Ira C. Bond Address Terry, Montana

Date of Notice of Appropriation of Groundwater _____

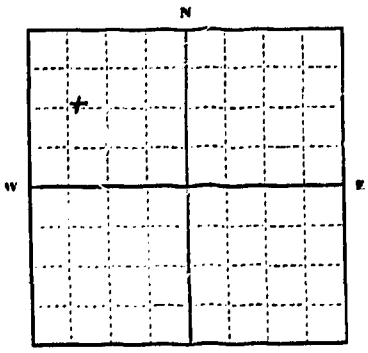
Date well started Oct. 3, 1964 Date Completed Oct. 6, 1964

Type of well drilled (dug, driven, bored or drilled) Equipment Used cable (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.

| Size of Drilled Hole | Size and Weight of Casing | From (Feet) | To (Feet) | PERFORATIONS Kind Size | From (Feet) | To (Feet) |
|---|---|---|---|---|---|---|
| 5 & 5 8" | 4½" on 11 lb | surface | 110 | burned holes | 90 | 107 |




NE¼NE¼ Sec. 32 T. 17 R. 45

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 80 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 95 feet at 8 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, 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) _____

37
Driller's License Number

Ira C. Bond
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.

3882°

128806

Water Well Log #616

State of Montana
County of McCone } ss.

Office of Clerk and Recorder.

Filed this 4th day of
January A. D. 19 65
at 4:15 o'clock P. M.

Clerk and Recorder

By _____ Deputy

Fee $2.00

GROUNDWATER INDEX

Page ____ of ____

County McCone Twp. 17N Rge. 46E

| Sec. | Name of Appropriator | Type of Form | County File No. | Remarks |
|---|---|---|---|---|
| 1 | Moline, James N. | GW 4 | 127233 | |
| 2 | " " | GW2 | 133329 | |
| 4 | Goldberg, Herbert | " 2 | 134478 | |
| 6 | Geerle, Jacob or Emma | GW 4 | 127048 | |
| 11 | Jordan, William C. | well log | 121604 | |
| 15 | " " | " " | 121601 | |
| 16 | MT. State (Thorny, Fred) | GW2 | 126097 | |
| 27 | Jordan, William C. | well log | 121603 | |
| 34 | Mackin, William Jr. & Mary | GW 4 | 123775 | |
| 34 | " " " | GW3 | 123774 | |

T. 17N., R. 46E.
McCONE COUNTY

GW

Approved Stock Form—State Publishing Co., Helena, Montana—3849

File No. 474

T. 17 N R. 46

DUPLICATE

County Mc Cone

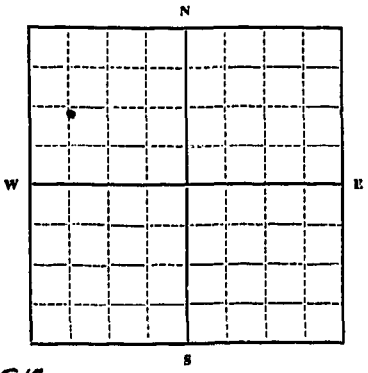
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 16 1964
STATE ENGINEER

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. James N. Moline (Name of Appropriator), of Brockway (Address) (Town)
County of Mc Cone State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:




SW NW 1/4 Sec. 1 T. 17 R. 46

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 stock well

3. Date or approximate date of earliest beneficial use; and how continuous the use has been April, 1945
all year, every year

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 gallons per minute while in use for stock

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 pump jack and electric motor

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater April, 1945

8. The depth of water table about 135 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 the well is 165 feet deep with 5 inch casing.

10. The estimated amount of groundwater withdrawn each year about 200,000 gal. per yr.

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 do not know of any

Signature of Owner James N. Moline

Date Dec. 30, 1963

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

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

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

36445

DOC. NO. 127233

WATER WELL LOG FILE NO. 474

JAMES N. MOLINE

TO

THE PUBLIC

STATE OF MONTANA )
)SS
COUNTY OF McCONE )

OFFICE OF COUNTY CLERK & RECORDER

Filed this 31st day of Dec., 1963 A.D.

at 8:18 o'clock, a.m.

COUNTY CLERK

FEE: $2.00

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4855

2

MONTANA WATER RESOURCES BOARD
RECEIVED
JAN 5 1968

File No.....

T. 12 R. 46

TRIPLICATE

County McCone

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.....) |
| 1 | Top soil |
| 9 | Yellow clay |
| 7 | Quick sand |
| 15 | Gumbo and sand |
| 2 | Coal dust |
| 8 | Hard coal 12 gal. per. min. |
| 6 | Gumbo |
| 48 | Show exact depth of bottom. |

Owner James Moline Address Brockway, Montana

Driller Ira C. Bond and Sons Address Terry, Montana

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

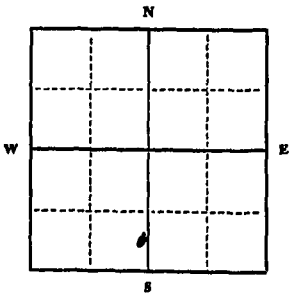
Date well started 10/24/67 Date completed 10/26/67

Type of well drilled (Dug, driven, bored or drilled) Equipment used cable tool (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) |
|---|---|---|---|---|---|---|
| 7 3/4 | 7" o.d. | 0 | 18 | None | | |
| 5 5/8 | 4 1/2" o.d. | 14 | 48 | 3/16" | 32 | 42 |




SW1/4SW1/4 Sec. 2 T. 17 R. 46
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 20 feet

Shut-in Pressure for Flowing Well.....

Pumping Water Level 36 feet at 7 gal. per minute.

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

How Tested bailed

Length of Test two hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) cased off quick-sand with 7" o.d. 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).

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.

37
Driller's License Number

Robert Bond
Driller's Signature.

42.716

133329

WATER WELL LOG # 656

State of Montana
County of McCone } ss.

Office of Clerk and Recorder.

Filed this 29th day of December A. D. 19 67

at 11:00 o'clock A. M.

Gloria G. Brennan
Clerk and Recorder

By Alice E. Hallem
Deputy

Fee $2.00

GW 1

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

4

File No. 668

T. 17 R. 46

TRIPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED
OCT 2 1968

County Ira Cone

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)

LOG

Top of Ground

(Elev. above sea level.....)

| | |
|---|---|
| 2 | top soil |
| 10 | yellow clay |
| 1 | sand |
| 21 | yellow clay |
| 5 | sandstone 1 gpm |
| 14 | gumbo |
| 4 | water sand |
| 4 | gumbo & sand |
| 5 | coal 20 gpm |

Show exact depth of bottom.

Owner: Herbert Goldburg Address: Brockway, Montana

Driller: Ira C. Bond & Sons Address: Terry, Montana

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

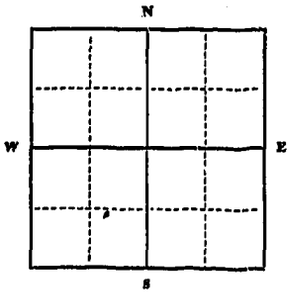
Date well started: 5/1/68 Date completed: 5/4/68

Type of well: drilled (Dug, driven, bored or drilled) Equipment used: cable tool (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) |
|---|---|---|---|---|---|---|
| 8 | 7od | 0 | 80 | 5/16 | 64 | 79 |




SE1/SE1/4 Sec. 4 T. 17 R. 46

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

Static Water Level for non-flowing well 50 feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level 72 feet at 10 gal. per minute.

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

How Tested: bailed

Length of Test: 4 hrs.

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

.....(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).

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.

37

Driller's License Number

Ira C. Bond & Sons

Driller's Signature.

44,619

DOC. NO 134478

WATER WELL LOG FILE NO. 668

HERBERT E. GULDBURG

TO

THE PUBLIC

STATE OF MONTANA )
) SS,
COUNTY OF McCONE )

The within instrument was filed for record on September 30th, 1968, A.D. at 10:00 O'clock a.m.

Gloria G. Brennan
County Clerk & Recorder

Fee $ 2.00

GW

Approved Stock Form—State Publishing Co., Helena, Montana—38496

File No. 301

T. 17 N R. 46 E

DUPLICATE

County McCone

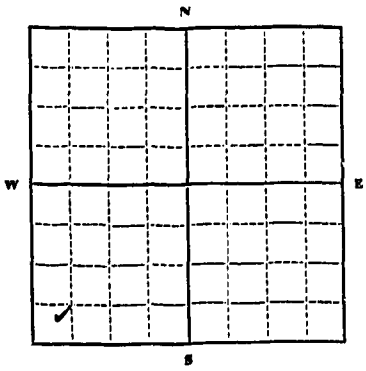
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 16 1964
STATE ENGINEER

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Jacob &/or Emma Gackle, of Circle
(Name of Appropriator) (Address) (Town)
County of McCone State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:




SW ¼ SW Sec. 6 T. 17 R. 46

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. Drinking(home) Stock water & garden irrigation

3. Date or approximate date of earliest beneficial use, and how continuous the use has been. 1913 Continuous use ever since

4. The amount of groundwater claimed (in miner's inches, or gallons per minute). 5 gal./ minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof ½ acre garden plot
Same owner

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. pump
All three wells within 200 yards of house

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. July 1943 The deep well was improved, the other two have been reconditioned periodically

8. The depth of water table. 48 feet on deep well, 14' in shallow wells

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" pipe in a drilled well, pipe extending to a depth of 140'. first water reached at a depth of 48' Pumpjack installed and may be opperated by either electric motor or gasoline engine One shallow well ha handpump, the other is equipped for windmill and electric motor.

10. The estimated amount of groundwater withdrawn each year. Est. 310,000 gal / year

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. McCone County

Signature of Owner Jacob Gackle

Date December 13, 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.

36272

WATER WELL LOG FILE NO. 301

DOC. NO. 127049

State of Montana
County of McCone } ss.

Office of Clerk and Recorder.

Filed this 26th day of

December A. D., 19 63

at 11:45 o'clock a M.

Clerk and Recorder

By Deputy

Fee $ 2.00

JACOB GACKLE

TO

THE PUBLIC

11

T. 17 R. 46

County McCone

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
STATE ENGINEER

WATER WELL LOG

| | | | |
|---|---|---|---|
| | | | |
| | | | |
| | | X | |
| | | | |

Owner William C. Jordan Address Brockway, Montana

Driller Ira C. Bond Address Terry, Montana

Date Started May 13, 1958 Date Completed May 14, 1958

Location: Sec. 11 T. 17 R. 46 ¼ sec. NE¼ of the SE¼

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:

Casing: 0 ft. to 28 ft. Type Steel Size 6 inch

Casing: 24 ft. to 72 ft. Type Steel Size 4 inch

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 53 to ft. 67 Ft. to ft.

Type of screen or perforations 5/16 in. holes cut three in. apart with torch

Static Water level, for non-flowing well: 25 feet.

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

Pumping water level 63 feet at 6 gal. per min.

How tested: With bailer

Length of test One hour

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

RECEIVED
DEC 29 1960
STATE ENGINEER

(over)

## Log of Well

| Depth, feet From | Depth, feet To | Description of Material Drilled |
|---|---|---|
| 0 | 10 | Yellow Sandy Clay |
| 10 | 13 | Quick sand |
| 13 | 16 | Gravel |
| 16 | 20 | Yellow Clay |
| 20 | 24 | Gravel |
| 24 | 46 | Clay |
| 46 | 54 | Coal |
| 54 | 66 | Water sand with lots of water |
| 66 | 72 | Gumbo |

Doc. No. 121604

State of Nevada } ss.
County of McCone }

Office of Clerk and Recorder

Filed this 22nd day of December A. D. 19 60

at 1:56 o'clock P. M.

Clerk and Recorder

By Deputy

Fee Rec'd

15

T. 17 R. 46

County McCone

RECEIVED
JAN 9 1961
STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: William O. Jordan Address: Brockway, Montana

Driller: Ira O. Dont Address: Terry, Montana

Date Started: September 5, 1960 Date Completed: Sept. 10, 1960

Location: Sec. 15 T. 17 R. 46 ¼ sec. NW4

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

Water use: Domestic [X] Municipal [ ] Stock [X] Irrigation [ ]

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 106 ft. Type 7 in. O. D. Size Steel

Casing: 106 ft. to 276 ft. Type Steel Size 4 in.

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 260 to ft. ~~263~~ 273 Ft. to ft.

Type of screen or perforations 5/16 in. holes cut 3 in. apart with torch

Static Water level, for non-flowing well: 100 feet.

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

Pumping water level 126 feet at 4 gal. per min.

How tested: with bailer

Length of test two hours

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

RECEIVED
DEC 27 1960
STATE ENGINEER

(over)

**Log of Well**

| Depth, feet From | Depth, feet To | Description of Material Drilled |
|---|---|---|
| 0 | 20 | Yellow sandy clay |
| 20 | 32 | same |
| 32 | 35 | Slight water showing |
| 35 | 40 | Yellow Sandy Clay |
| 40 | 54 | Clay |
| 54 | 63 | Fine watersand - 21 gpm |
| 63 | 67 | Coal |
| 67 | 72 | Gumbo |
| 72 | 76 | Coal |
| 76 | 86 | Sandy Clay |
| 86 | 90 | Clay |
| 90 | 96 | Water sand |
| 96 | 100 | Clay |
| 100 | 104 | Water Sand |
| 104 | 112 | Gumbo |
| 112 | 125 | Water sand |
| 125 | 167 | Gumbo |
| 167 | 172 | Water Sand |
| 172 | 181 | Gumbo |
| 181 | 189 | Sandstone |
| 189 | 247 | Gumbo |
| 247 | 248 | Rock |
| 248 | 252 | Sandstone |
| 252 | 261 | Gumbo softer |
| 261 | 263 | Water sand |
| 263 | 264 | Coal |
| 264 | 272 | Water sand |
| 272 | 276 | Soft Gumbo |

Doc. No. 121601
State of Montana
County of McCone } ss.
Office of Clerk and Recorder.
Filed this 22nd day of December A. D. 19 60
at 1:40 o'clock P. M.
Clerk and Recorder
By _____ Deputy
Fee None

GW 2

File No.....

DUPLICATE

T. 17 N R. 46 E

County MC Cone

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
June 12, 1963
STATE ENGINEER

# Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level.....)

10
20
30
40

yellow Sandy Loam
Blue Shale
Coal 40 - 46 ft. water
Bottom

STATE OF MONTANA - OWNER
Owner Fred Thorny - RENTER Address Brockway, Mont.

Driller Henry I Johnson Address Terry, Mont.

Date of Notice of Appropriation of Groundwater N.A.

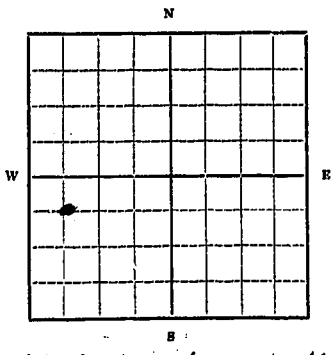
Date well started May 15 '63 Date Completed May 16 '63

Type of well Drilled (dug, driven, bored or drilled) Equipment Used Cable tool (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) |
|---|---|---|---|---|---|---|
| 5 5/8 | 4" ID 95# | 0 | 46 | 3/8 Holes | 26 | 46 |




NW ¼ SW Sec. 16 T. 17 R. 46

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 21 feet.

Shut-in Pressure for Flowing Well N.A.

Pumping Water Level 24 feet at 30 gal. per minute.

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

How Tested Bailer 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) .....

Show exact depth of bottom.

22
Driller's License Number

Henry I Johnson
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 School of Mines and Quadruplicate for the Appropriator.

4620

126097

WATER WELL LOG #224.

State of Montana
County of McCone } ss.

Office of Clerk and Recorder.

Filed this 11th day of June, 1962 A. D. 19

at 9:30 o'clock A. M.

Clerk and Recorder

By Deputy

Fee $2.00

T. 17 R. 46 27

County McCone

RECEIVED
AUG 9 1961
STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

| | | | |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | X | |

Owner William C. Jordan Address Brockway, Montana

Driller Ira C. Bond Address Terry, Montana

Date Started June 11, 1959 Date Completed June 12, 1959

Location: Sec. 27 T. 17 R. 46 ¼ sec. SE 4

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:

Casing: 0 ft. to 56 ft. Type Steel Size 4 in.

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 41 to ft. 54 Ft. to ft.

Type of screen or perforations 5/16 in. holes cut three in. apart with torch

Static Water level, for non-flowing well: 30 feet.

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

Pumping water level 45 feet at 6 gal. per min.

How tested: with bailer

Length of test one hour

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

RECEIVED
DEC 27 1960
STATE ENGINEER

(over)

## Log of Well

| Depth, feet From | Depth, feet To | Description of Material Drilled |
|---|---|---|
| 0 | 17 | Yellow clay |
| 17 | 20 | Gravel |
| 20 | 22 | Sandy Clay and Gravel |
| 22 | 30 | Sandy Clay |
| 30 | 42 | Clay |
| 42 | 53 | Water sand |
| 53 | 56 | Gumbo |

Doc. No. 121602

State of Montana
County of McCone } ss.

Office of Clerk and Recorder

Filed this 22nd day of December A. D. 1960 at 1:45 o'clock P. M.

Clerk and Recorder

By Deputy

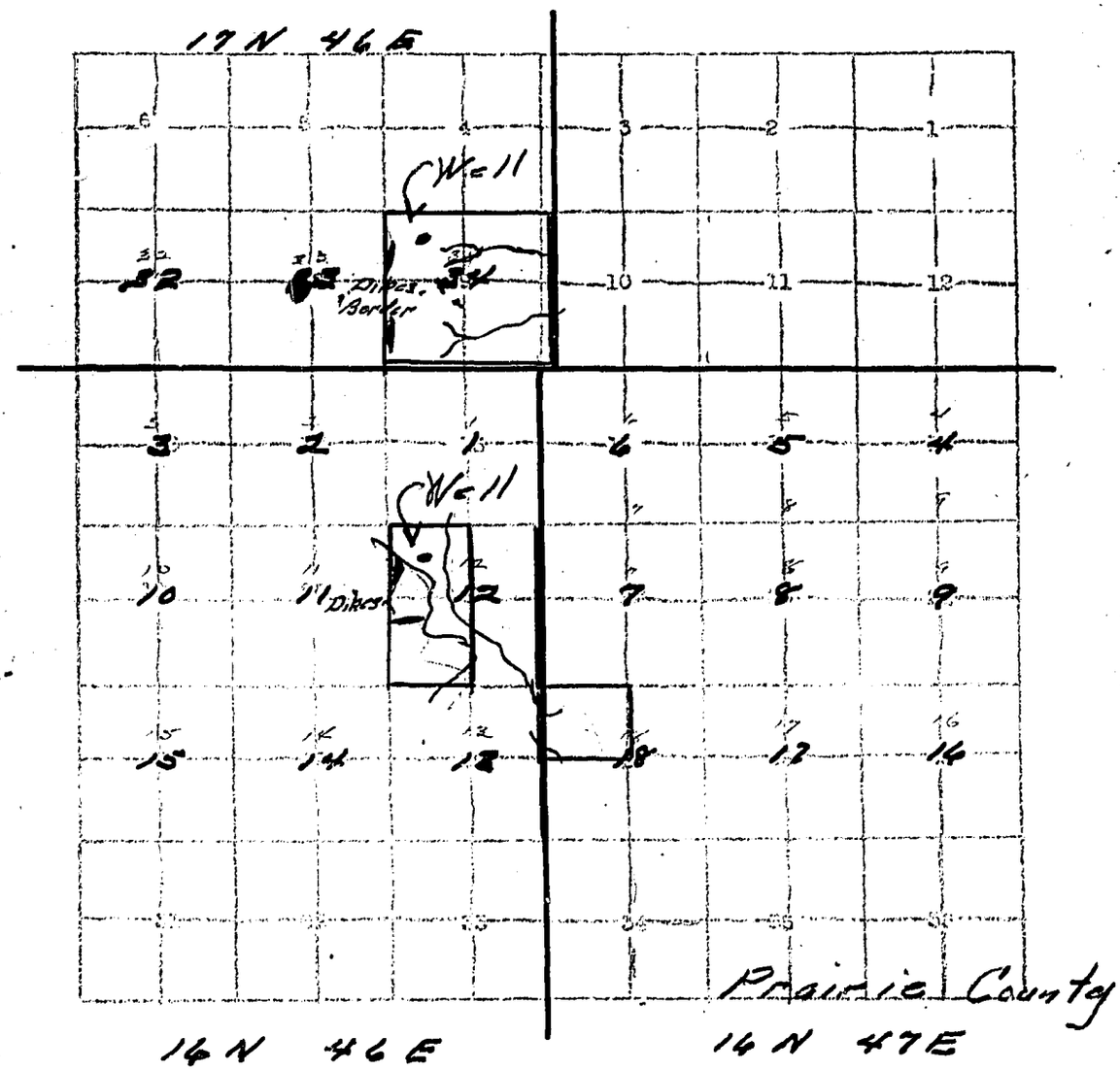
Fee None

McCone
[redacted] COUNTY MONTANA

OPERATOR: McCone [redacted] County

TOWNSHIP _____ NORTH RANGE _____ EAST

RECEIVED
MAR 22 1962
STATE ENGINEER



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Approved Stock Form—State Publishing Co., Helena, Montana—38687

34

File No.....

T. 17 N R. 46 E

DUPLICATE

County Mc Cone

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

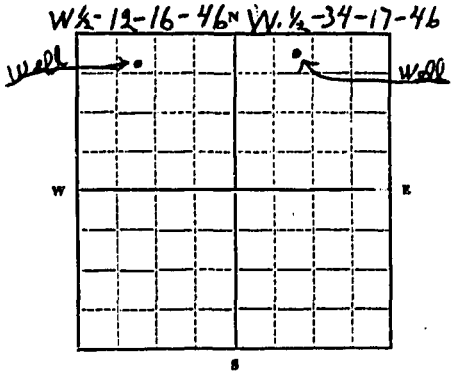
RECEIVED
MAR 22 1962
STATE ENGINEER

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. William J & Mary Mackin, of 903 S Jordan Miles City
(Name of Appropriator) (Address) (Town)
County of Mc Cone State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

W½-12-16-46 W. W½-34-17-46




.....¼..... Sec. 34 T. 17 R. 46

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, Stock & Domestic use.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1924 and continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 gals 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 2 Acres of irrigated land

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 2 wind mills - For Location see attached map. Sec. 34

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Dec. 26, 1924 & Oct. 8, 1944

8. The depth of water table 84' (1924 well) 122' (1944 well)

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 4½ casing (1924 well) 4" casing (1944 well) 2" Cylinder 1¼" pipe ¾" pump rods.

10. The estimated amount of groundwater withdrawn each year 3 gals. per min.

11. The log of formations encountered in the drilling of each well if available Soft brown sand 84', Water bearing sand & gravel 84' to 96'. 2nd well is drawing water 122 to 140'

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 The S.C.S. & A.S.C.

Signature of Owner William J Mackin
Mary Mackin

Date March 20, 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.

35.

123775

WATER WELL LOG # 210

State of Montana
County of McCone } ss.

Office of Clerk and Recorder.

Filed this 20th day of
March A. D. 19 62
at 4:05 o'clock P. M.

Clerk and Recorder

By _____
Deputy

Fee $2.00

GW 3

34

File No.....

T. 17 N R. 46 E

DUPLICATE

County Mc Cone

S.W.

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAR 22 1962
STATE ENGINEER

# Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater March 13 1962

Owner William J. + Mary Mackin Address 502 S Jordan Miles City

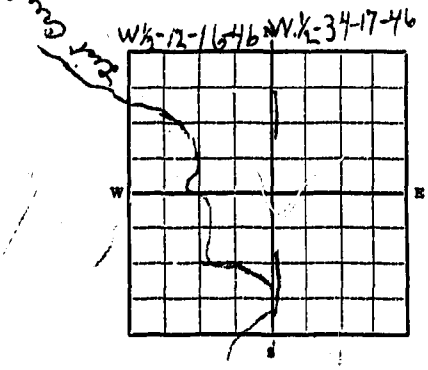
Contractor (if any) Charles Clark

Address of Contractor Terry Montana

Date Started July 5/61 Date Completed July 7, 1961

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Border Dikes to contain run-off water and to spread run-off 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 Snow melt run-off in the spring of each year and flash floods. For location see attached map.




.....¼..... Sec..... T..... R.....

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

Signature of Owner William J Mackin
Mary Mackin

Date March 22, 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.

Doc. No. 123774

WATER WELL LOG # 209

State of Montana }
County of McCone } ss.

Office of Clerk and Recorder.

Filed this ~~March~~ 20 day of

March, A. D. 1962

at 4:00 o'clock P. M.

Clerk and Recorder

By _____ Deputy

Fee $2.00