

## Log of Well

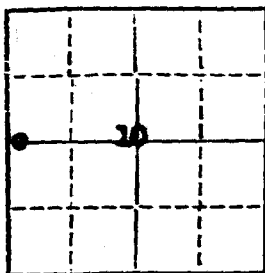
Depth, feet		Description of Material Drilled
From	To	
0	9	Top soils
9	101	Gravels & clay d ry.
101	105	Clay
105	107	Gravel dry
107	111	Clay
111	114	Gravel dry
114	118	Clay
118	120	Gravel dry
120	125	Gravel wet
125	132 $\frac{1}{2}$	Clay
132 $\frac{1}{2}$	134	Sand wet
134	138	" Water
138	139	Coarse clean gravel Water.

RECEIVED  
SEP 24 1958

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG



Owner W.W. McConnell Address Marble, Ill.  
Driller W.W. McConnell Address Marble, Ill.  
Date Started August 22, 1958 Date Completed Sept 8, 1958  
Location: Sec. 10 T. 4N R. 1E 1/4 sec. 36

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

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

Casing: 0 ft. to 213 ft. Type Steel Size 12" I.D. 5/16 wall

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

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

Perforated or Screened: Ft. 90 to ft. 105 Ft. 118 to ft. 190

Type of screen or perforations Knife

Static Water level, for non-flowing well: 67' feet

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

Pumping water level 125 feet at 1500 gal per min.

How tested: Stiller test g.p.m.

Length of test approx 2 hours each strata

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

casing bottom in large gravel, 1" up in size, about 4' into gravel

(over)

# Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	28	clay with small % of sand
28	30	indication of water bearing sand ?
30	60	heavy clay silt little amount of sand
60	65	pink colored shale
65	90	clay bound sticky gravel-could open hole ft.
90	95	sticky clay bound gravel, good water
90	99	could see water running in bottom fast (east way)
99	105	all else almost still water, gravel showing in test.
105	110	sand (not quick sand) small gravel
note water stands at 87° & cannot lower from 90°		
110	118	sandy silt & small gravel-water-test
118	121	less sand and more gravel-water-test
121	126	large gravel in clay " "
126	135	" " " " " "
135	140	tight clay no water, apparently good gravel
140	145	more good gravel and another water level, 90°
145	148	soft clay, gravel water
148	152	very hard clay sound gravel & rocks
152	157	silt, sand & gravel very good & water
157	170	" " " " " "
170	200	" " " " " "
200	205	hard clay with gravel " "
205	209	clay-more gravel, better water
209	213	good clean gravel, water stands at 90° no draw down with 10" boiler about 4 hours

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

T 110 R 1E

DUPLICATE

County \_\_\_\_\_

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)

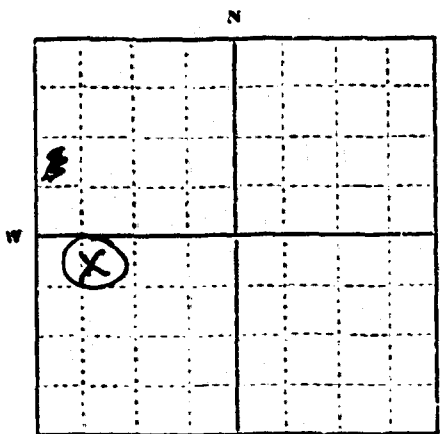
Top of Ground  
(Elev. above sea level \_\_\_\_\_)

0-40 Clays & small gravels  
40-73 Gravels  
73-92 Gravels, clays  
92-97 Clays  
97-99 Gravels  
99-104 Clays  
104-106 Sands  
106-116 Clay mixed gravels  
116-131 Coarse broken rock  
131-156 Clays & sands  
156-170 Clays & rocks  
170-173 Gravels  
173-187 Clays  
187-195 Gravels & clays  
195-199 Gravels

Owner Fred Williams Address Toson, MontanaDriller Van Dyke Drilling Company Address Butte, MontanaDate of Notice of Appropriation of Groundwater NoneDate well started Feb. 5, 59 Date Completed April 19, 1959Type of well Drilled Equipment Used Cable tools  
(dug, driven, bored or (Churn, drill, rotary or  
drilled) 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)
12"	12" 13/16" steel	0	199	Slot 3/8" x 7/8"	100 118	105 195



1/4 Sec. 10 T. 11N R. 1E  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 98 feet.Shut-in Pressure for Flowing Well NonePumping Water Level 180 feet at 700 gal. per minute.Discharge in gal. per min. of flowing well NoneHow Tested Turbine test pump Length of Test 8 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)

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.

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.

RECEIVED TO THE  
CLERK OF DISTRICT COURT  
COUNTY OF BROADWATER  
MONTANA  
JAN 1 1963

69513

STATE OF MONTANA ss.  
County of Broadwater.

I hereby certify that the within  
statement was filed for record in my  
office on the 27 day of  
December A.D. 1962 at  
20 min. past 3  
o'clock P.M.

Ann Marie Stew  
County Recorder.

By Betty H. Riley Deputy.

File No.

DUPLICATE

T 4N R 1E  
RECEIVED  
County

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)

Top of Ground

0-7 (Elev. above sea level) clays, gritty  
7-15 gravels with few 6" boulders  
15-28 light buff color clays  
28-40 gravels fine & coarse, few 8" boulders  
40-49 small gravels  
49-57 clays with a few small pebbles  
57-73 small gravels, clay bound  
73-78 cemented fine gravels  
78-80 clays with some small pebbles  
80-82 large boulders  
82-91 clays, gritty  
91-99 gravels & boulders  
99-97 clay with small pebbles  
97-104 coarse gravels, coarse & fine  
104-110 clay with pebbles  
110-116 small gravels, clay mixed  
116-117 coarse gravels & boulders  
117-128 clays with some small gravels in it  
128-131 clean coarse gravels & boulders  
131-144 clays with pebbles  
144-150 small clean gravels  
150-154 light color clay  
154-164 gravels, boulders 60% clays 40%  
164-180 Clean gravels  
180-189 small gravels 60% clays 40%  
189-192 clays with a little gravels  
192-201 cemented gravels, lime coated  
201-204 clays embedded with small gravels  
204-211 cemented gravels, coarse  
211-219 clays with some small gravels  
219-242 cemented lime coated gravels  
242-260 clays, embedded with small gravels (Continued on back)

Owner Fred Williams Address Helena, Montana

Driller Van Dyken Drilling Co. Address Bozeman, Montana

Date of Notice of Appropriation of Groundwater None

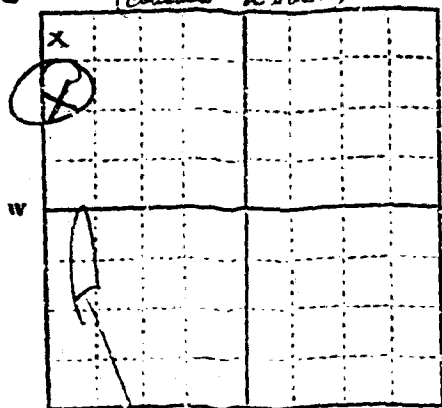
Date well started Oct. 9, 1962 Date Completed Oct. 13, 1962

Type of well Drilled Equipment Used Reveres Rotary  
(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.

Size of Drilled Hole	How and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
32"	16" 1/2" wall prime steel	2' above	330	3/16 x 1 1/2 slots per ft.	164	330



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

T.D. 330'  
Show exact depth of bottom.

Log Continued on Back side

Static Water Level for non-flowing Well 91' feet.

Shut-in Pressure for Flowing Well None

170' 2250 G.P.M.  
Pumping Water Level 200' feet at 3000 gal. per minute.

Discharge in gal. per min. of flowing well None

Turbine Test Pump  
How Tested Length of Test 35 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 well. Bore is 32" with lower 164' of perforated 16" casing acres irrigated, if used for irrigation) top 164' of 16" casing is plain. The Annular space between 32" bore and 16" casing is packed with 1/4 to 3/8" wash and screened round gravels from 70' down to 330ft.

License No. 1  
Driller's License Number

Barth Van Dyken  
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.

- 260-263 Soft porous sandstone.
- 265-275 Loose clean gravels.
- 275-288 Clays & gravels mixed.
- 288-292 Medium & large gravels.
- 292-298 Sticky clay.
- 298-301 Coarse clean gravels.
- 301-308 Coarse porous sandstone.
- 308-312 Clays.
- 312-314 Clay & gravels.
- 314-318 Sandstone, soft & porous.
- 318-323 Clean coarse gravels.
- 323-324 Clay.
- 324-326 Large gravels.
- 326-330 Clays with pebbles.

69478  
 STATE OF MONTANA } ss.  
 County of Broadwater.  
 I hereby certify that the within be-  
 stream was filed for record in my  
 office on the 14 day of July, A.D. 1962, at  
 11:56 a.m. per 11.  
 A. N.  
 Charles Newman, County Recorder.  
 By Betty W. Riley, Deputy.

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

T. 4 N. R. 1 E.

DUPLICATE

County Broadwater

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)

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

0-33 Clay  
33-34 Rocks  
34-78 Clay  
78-78 6 Sand  
78.6-120 Clay  
112-122 Quick sand  
122-144 Clay  
144-174 Gravel  
174-179 Clay  
179-199 Gravel  
199-203 Clay  
203-214 Clay  
214-220 Sand & gravel  
220-225 Clay  
225-240 Lots of fine sand  
240-270 Clay  
270-273 Clay  
273-278 Clay  
278-281 Rock, clay bound  
281-284 Sand, lots of fine sand  
284-285 Rocks, large & coarse

Owner Fred Williams Address Toston, MontanaDriller Van Dyken Drilling Co. Address Bozeman, MontanaDate of Notice of Appropriation of Groundwater NoneDate well started Dec. 13, 1957 Date Completed February, 1958

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

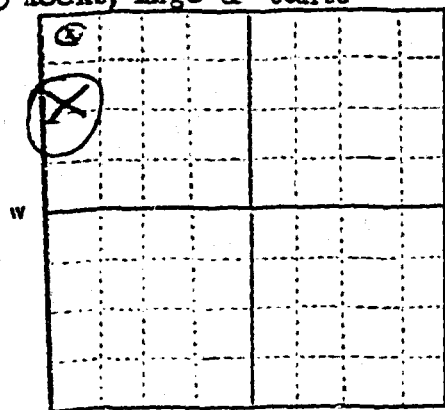
Water Use: Domestic ☐ Municipal ☐ Other ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Stock ☒

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)
7"	7" 24#	0	447	None		

Static Water Level for non-flowing Well 100 feet.Shut-in Pressure for Flowing Well NonePumping Water Level 125 feet at 5 gal. per minute.Discharge in gal. per min. of flowing well NoneHow 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)



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

Show exact depth of bottom.

Licensed No. 1  
Driller's License Number

Bert Van Dyken  
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.

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285-297	Clay with large rocks
297-299	Rocks
299-303	Sand, loose
303-305	Bouncing sand, brown water
305-308	Gravel
308-317	Clay
317-325	Sand
325-330	Gravel, large
330-340	Clay rocks
340-349	Sand stone
349-354	Grish sand
354-356	Rocks, large
356-358	Fine gravel
358-360	Good pea gravel
360-364	Clay bound gravel, some fine sand, tested for water, would not hold up for medium size bailer
364-368	Sand stone
368-370	Gravel
370-372	Clay
372-384	Sand stone
384-401	Clay, sticky
401-414	Gravel
414-419	Clay bound gravel
419-435	Same as 401-414 good sharp broken rocks tested for water very good no draw down
435-437	Coarsened gravel
437-442	Same
442-443	Clay
443-447	Extra good gravel

69512

STATE OF MONTANA

County of Lincoln

I, the undersigned, the Clerk of the District Court of the County of Lincoln, do hereby certify that the within is a true and correct copy of the record in my office of the

27 day of December A.D. 1968

15 min. past 3

at the Court House

Am. Marie Storer

Clerk of the Court

By Betty M. Riley Deputy.

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

T 411 R 1E 11

DUPLICATE

County Broadwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

SEP 24 1964

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

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

92' Clay bound gravels and boulders with a few lenses of clays.  
92' 104' Coarse cemented gravels with layers of hardpan.

Owner John and Bill Williams Address Teston, Mont.  
Driller Van Dyken Drilling Co. Address Bozeman, Mont.

104' 109' Sands.  
109' 117' Clays.  
117' 142' Alternate lenses clays and gravels

Date of Notice of Appropriation of Groundwater \_\_\_\_\_  
Date well started Aug. 3/64 Date Completed Aug. 8/64

142' 144' Loose clean gravels.  
144' 162' claybound gravel.  
162' 165' Clean gravels.  
165' 182' Cemented sands and gravels, clay lenses.

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

182' 190' Sand stone.  
190' 249' Claybound gravels  
249' 269' Same but cleaner.

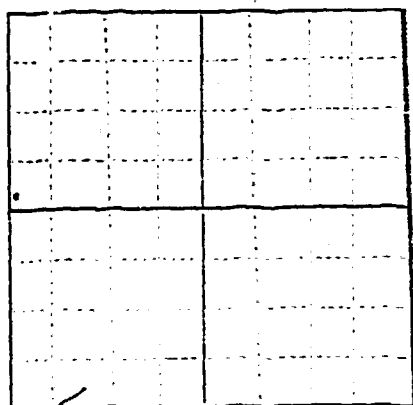
Water Use: Domestic ☐ Municipal ☐ Other ☐ Irrigation ☒  
Industrial ☐ Drainage ☐ Stock ☐

269' 328' Claybound gravel and sandstone lenses.  
328' 338' Clean gravels.  
338' 368' Claybound gravels.

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.

368' 378' Clays.  
378' 397' Gravels and clay lenses.  
397' 431' Claybound sand and gravels with small lenses of sandstone. Clay from 431' to 431' T.D. 431'

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
32"	16" Prime steel 1" wall P.E. Welded joints.	0'	431'	3/16"	94	149
				1"	174	194
				1 1/4"	202	226
				85	264	284
				slots	320	340
				per foot	352	372
					392	397



SE 1/4 Sec. 11 T 411 R 1E  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 45 feet.

Shut-in Pressure for Flowing Well none

Pumping Water Level 240 feet at 2400 gal. per minute.

Discharge in gal. per min. of flowing well none

How Tested Turbine Pump Length of Test 8 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 32" Hole was drilled open and 16" casing is stalled centered in 1/4" to 7/16" irrigation)

washed and screened round gravels was then installed in the 8" annular space between casing and hole from 431' up to 30' from surface. Upper 30' is filled in with clays.

License No. 1

Driller's License Number

Best Van Dyken  
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.

(OVER)

38480

19 0-94'

GRADE

32" HOLE

91' OF 16" O.D. -  $\frac{1}{4}$ " WALL  
CASING

71828

STATE OF MONTANA } ss.  
County of Broadwater.

I hereby certify that the within in-  
strument was filed for record in my  
office on the 23<sup>rd</sup> day of

September A.D. 1964 at  
50 min. past 2

o'clock P.M.

Anna Marie Johnson  
County Recorder.

By Gladys Johnson Deputy.

25' PLAIN CASING -

12' 6" PLAIN CASING

38' PLAIN CASING

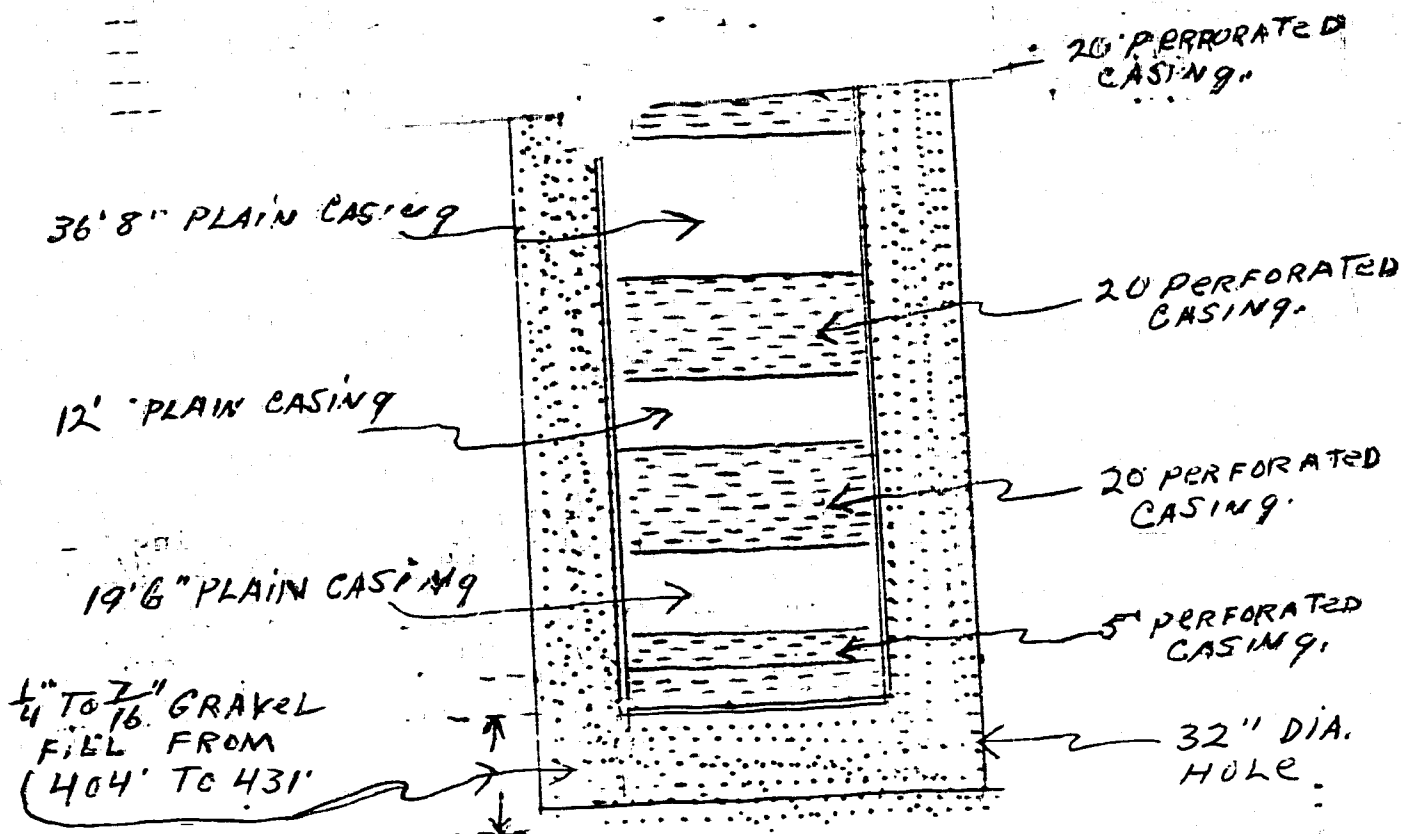
30' CLAY FILL

$\frac{1}{4}$ "  $\times$   $\frac{7}{16}$ " WASHED  
AND SCREENED  
GRAVEL PACK--  
30' TO 431'

45' PERFORATED  
CASING  $\frac{3}{16}$ "  $\times$   $\frac{1}{4}$ " SLOTS

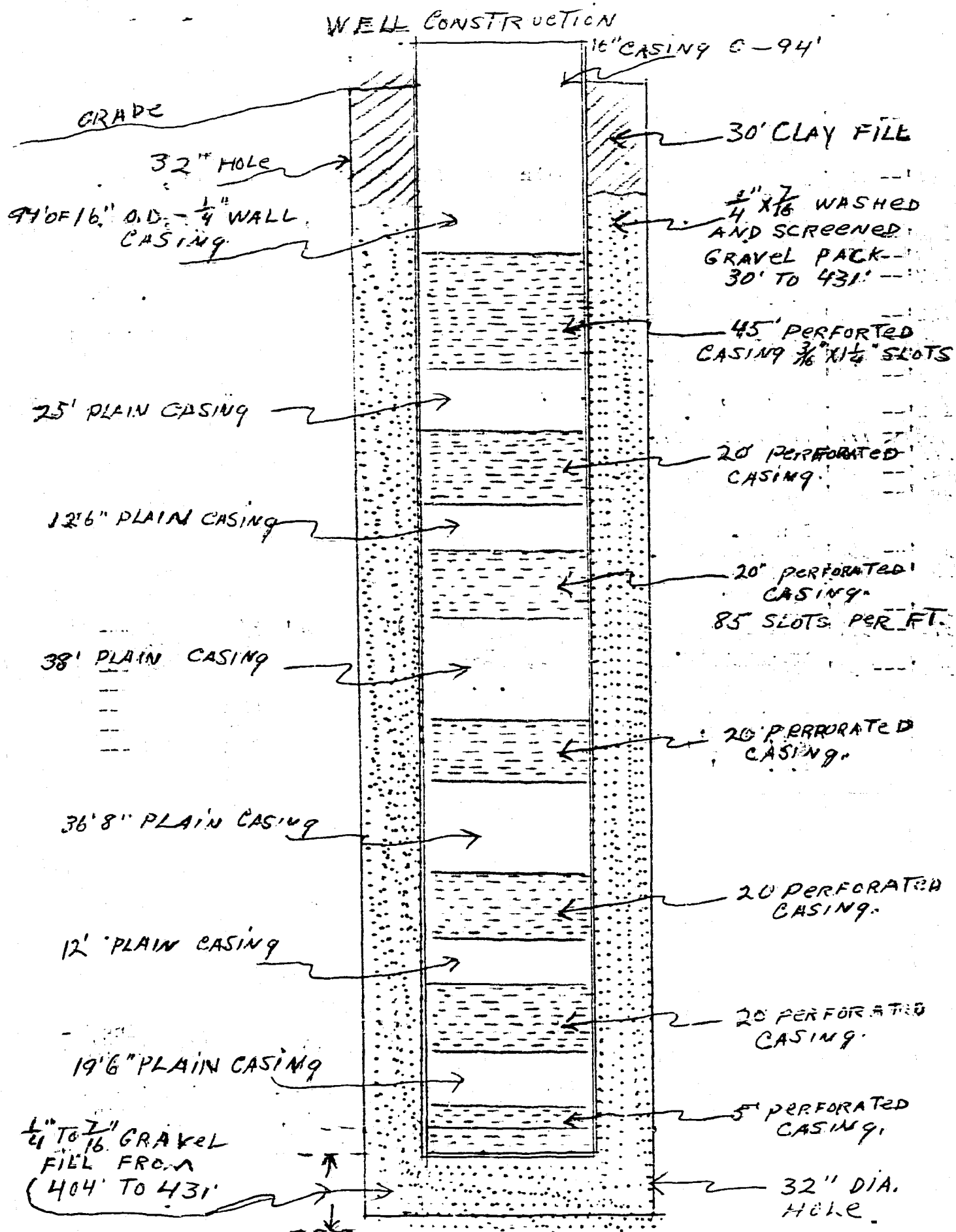
20' PERFORATED  
CASING

20' PERFORATED  
CASING  
85 SLOTS PER FT.



VAN DYKEN DRILLING CO.

BOZEMAN, MONTANA



VAN DYKEN DRILLING CO.

BOZEMAN, MONT/NA

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

T. 4N R. 1E

DUPLICATE

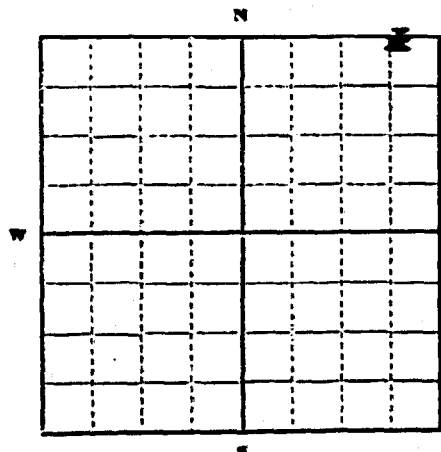
County Broadwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 3 1963

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

I, Kittie Brothers of Toston  
(Name of Appropriator) (Address) (Town)  
County of Broadwater State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 12 T. 4N R. 1E

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 & Livestock

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

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

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

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

Pump with windmill

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

8. The depth of water table from 5 to 10 ft.

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

this well has a 4" iron pipe casing and is 106' deep

10. The estimated amount of groundwater withdrawn each year I don't know

11. The log of formations encountered in the drilling of each well if available  
0 to 20' clay 20 to 35' quicksand 35' to 106' sand and gravel.

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

Signature of Owner Kittie Brothers  
By [Signature]  
Date 12-30-62

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.

18636

70823

STATE OF MONTANA }  
County of Broadwater. } ss.

I hereby certify that the within in-  
strument was filed for record in my

office on the 30 day of  
Dec A.D. 1963 at

37 min. past 11

A.M.

Anna Marie Perin  
County Recorder.

By \_\_\_\_\_

RECEIVED  
STATE ENGINEER

12  
T 4n R 1E

County Broadwater

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

W

	12		
			X

E

Owner Herman L. Moudree Address Toston, Montana

Driller Paul Moran Address Toston, Montana

Date Started 12/3/57 Date Completed 12/3/57

Location: Sec. 12 T. 4N R. 1E 1/4 sec. SE 1/4

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

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

Casing: 00 ft. to 46 ft. Type Steel Size 6"

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

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

Perforated or Screened: Ft. None to ft. Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations None

Static Water level, for non-flowing well: 26 feet

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

Pumping water level 27 feet at 10 gal. per min.

How tested: Bailor

Length of test short

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

(over)

## Log of Well

Log of Well		
Depth, feet		Description of Material Drilled
From	To	
0	2	clay
2	12	shale
12	17	clay
17	20	gravel
20	35	clay
35	36	cemented gravel
36	44	clay
44	46	water bearing gravel of large size and rocks the size of hen eggs
		stopped



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

T 4 N R 1 E

DUPLICATE

County Broadwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

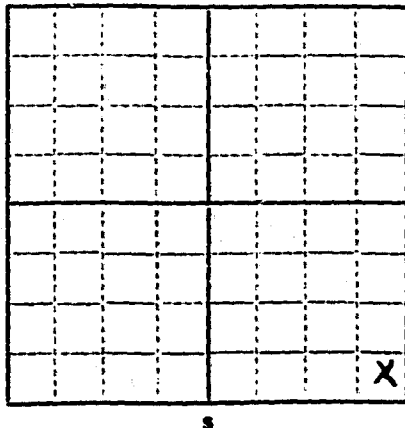
RECEIVED

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Herman L. Moudree of Toston  
(Name of Appropriator) (Address) (Town)  
County of Broadwater State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec 12 T4N R1E

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
3. Date or approximate date of earliest beneficial use; and how continuous the use has been January 1958  
continuously
4. The amount of groundwater claimed (in miner's inches or gallons per minute) in excess of 100 gallons  
per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
used to irrigate shelter  
belt trees SE 1/4 SE 1/4 SE 1/4  
of Sec. 12 T4N R1E H.L. Moudree
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal cylinder  
pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater January 1958 - February  
1958
8. The depth of water table 37 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 drilled well, 6" casing, 46'  
in depth, cylinder pump
10. The estimated amount of groundwater withdrawn each year 2,000,000 gal
11. The log of formations encountered in the drilling of each well if available 0-2' clay, 27012 ft.  
Shale, 12 to 17 ft clay, 17 to 20 gravel, 20 to 35 clay,  
35 to 36 cemented gravel, 36 to 44 clay, 44 to 46 water  
bearing gravel
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record A.S.C. records

Signature of Owner Herman L. MoudreeDate Feb 6-1963

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.

3604

69650  
STATE OF MONTANA } ss.  
County of Broadwater.

I hereby certify that the within  
document was filed for record in  
office on the

7 day  
February A.D. 1963

10 min. past  
clock M.

For Marie Stover  
County Recorder.

By Betty J. Kelley Deputy

2  
# 3

Approved Stock Form—State Publishing Co., Helena, Montana—3896

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

T. 4N R. 1E

DUPLICATE

County Broadwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

## Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

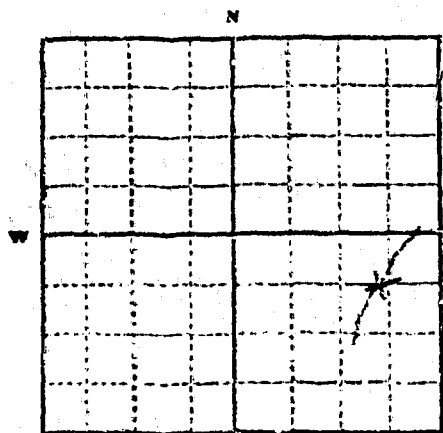
Date of Appropriation of Groundwater \_\_\_\_\_

Owner Herman L. Moudree Address Toston, Mont.

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

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

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



SE 1/4 Sec. 2 T. 4N R. 1E  
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 spring  
caused by irrigating  
water raising water  
table

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 Year  
round To water  
lives took

Signature of Owner Herman L. Moudree

Date \_\_\_\_\_

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

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

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

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

69651

STATE OF MICHIGANA  
County of Broadwater.

I hereby certify that the within in-  
strument was filed for record in my  
office on the 7 day of

February A.D. 1963 at  
15 min. past 4

o'clock P.M.

Marie Stene  
County Recorder.

By Steve Willey Deputy

RECEIVED  
DEC 27 1959

T 4 N R 1 E

County Broadwater

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

also QW 4

•			
x			

Owner W. D. Williams Address Toston, Montana

Driller Van Dyken Drilling Company Address Rozeman,

Date Started Oct. 23, 1959 Date Completed Dec. 15, 1959

Location: Sec. 12 T. 4 N R. 1 E 1/4 sec. NW 1/4

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: 0 ft. to 110 ft. Type Prime steel Size 6 5/8 O.D. - P.E.

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 none

Static Water level, for non-flowing well: 9 feet.

Shut-in pressure, for flowing well: none lb./sq. in. on: (date)

Pumping water level 13 ft. draw down feet at 900 G.P. H.

How tested: Bailer

Length of test 2 hrs.

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

(over)

### Log of Well

[illegible]

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

T. 4N R. 1E

DUPLICATE

County Broadwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

JAN 3 1963

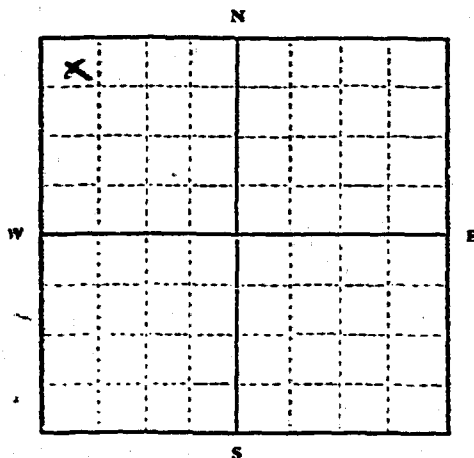
ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. W.D. Williams, of Radarsburg,  
(Name of Appropriator) (Address) (Town)

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



~~Section~~

1/4 Sec. 12 T. 4N R. 1E

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
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 12-15-57  
used continually
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
\_\_\_\_\_  
\_\_\_\_\_
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started 10-23-59 Completed 12-15-59
8. The depth of water table 9 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 110 feet 6" casing steel
10. The estimated amount of groundwater withdrawn each year 750,000 gallons
11. The log of formations encountered in the drilling of each well if available log recorded in  
Edw County Courthouse
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record  
\_\_\_\_\_  
\_\_\_\_\_

Signature of Owner

W.D. Williams

Date

12-30-63

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.

18730

70921

STATE OF MONTANA ss.  
County of Deer Lodge.

I hereby certify that the within  
instrument was filed for record in my  
office on the 31 day of

Dec 31 1913  
at 4 o'clock P.M.  
C. P. Maria  
County Recorder.  
Deput.



File No.

STATE WATER CONSERVATION BOARD

T 4N R 1E

DUPLICATE

NOV 26 1965

County Broadwater

Site \_\_\_\_\_  
 Log \_\_\_\_\_  
 Core \_\_\_\_\_  
 Darrington \_\_\_\_\_  
 Dickert \_\_\_\_\_

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)

0-11  
TOP SOILS

5 FT. 6 IN

STATIC WATER  
LEVEL

11-21

SAND, AND  
GRAVELS

21-31

SLOPEY CLAY  
AND SANDS

31-41

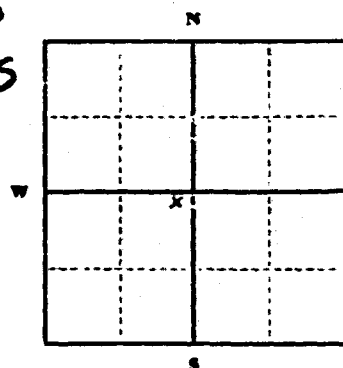
COURSE SAND  
AND GRAVELSOwner W.D. WILLIAMS Address RAILROAD BLVD MONTDriller Potts Drilling Address BOZEMAN MONT

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

Date well started NOV-15-65 Date completed NOV-20-65Type of well DRILLED Equipment used CABLE TOOL  
(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"	6" ID 10' 17 LB		40.			



NE 1/4 Sec 12, 1/4 N R 1E  
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 5 1/2 feet.

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

Pumping Water Level 6 feet  
at 20 gal. per minute.

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

How Tested BAILERLength of Test 1 1/2 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).

Show exact depth of bottom.

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

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

Driller's License Number 150Driller's Signature Hubert A. Potts

39897

31-11  
G01520 2400

1270  
C 1110-10-1

4100 2400  
2100 2400

11-11  
2100 2400

2100 2400  
2100 2400

11-11  
2100 2400

73065  
STATE OF MONTANA  
County of Broadwater.  
I hereby certify that the within in-  
strument was filed for record in my  
office on the 24th day of  
Nov A.D. 1965 at  
30 min. past 2  
o'clock P.M.  
John Marie Stinner  
County Recorder.  
By \_\_\_\_\_ Deputy.

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

Approved Stock Form—State Publishing Co., Helena, Montana—436C

ORIGINAL

T H N R I E

County BROADWATER

LOG

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' - 4' Soils and clays.  
4' - 40' Coarse gravels and boulders.  
40' - 42' Claybound gravels.  
42' - 53' Coarse sand and gravels with boulders.  
53' - 66' Claybound sand and gravels with cemented lenses.  
66' - 70' Gritty clays.  
70' - 97' Sand and gravels with some clay lenses.  
97' - 100' Clean sand and gravels.  
100' - 112' Claybound sand and gravels.  
112' - 115' Clays.  
115' - 136' Fine to coarse sand and gravels, cemented and claybound lenses.  
136' - 142' Clay.  
142' - 144' Gravels.  
144' - 145' clay.  
145' - 155' Coarse gravels, Clean.  
155' - 168' Gritty clays.  
168' - 180' Claybound sand and gravels.  
180' - 181' clays.  
181' - 212' Claybound gravels with some clean small lenses of gravels.  
212' - 213' soft sandstone.  
213' - 221' Clays and gravels.  
221' - 226' Clays.  
226' - 352' All claybound sand and coarse gravels, with a few lenses of clean gravels from 1' to 3' thick  
352' - 355' clays.

T.D. 355'

Owner WOODROW HENSELY Address TOSTON, MONT.  
Driller VAN DYKEN DRILLING CO. Address BOZEMAN, MONT.

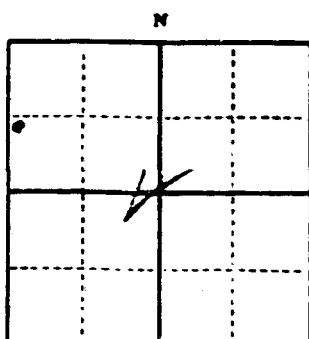
Date of Notice of appropriation of groundwater NONEDate well started MAY 15/67 Date completed MAY 29/67

Type of well Drilled Equipment used Reverse 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)	From (Feet)	To (Feet)	TEMPERATURE	Remarks
32"	16" O.D. .281 wall Tested, P.E.	0'	346'	346'	306'	328'	206'
							kind size
							All perforations are 1"



Static Water Level for non-flowing well 123' feet.

Shut-in Pressure for Flowing Well NONE

Pumping Water Level 223' 6" feet  
at 2000 gal. per minute.

Discharge in gal. per min. of flowing well NONE

How Tested Turbine test pump.

Length of Test 8 Hrs.

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

ed in 32" hole, and gravel packed with 1/2" gravels from 346' back up to above top perforations

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).

This well to be used for irrigation  
of 320 + acres of crop land.

Show exact depth of bottom.

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

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

License No. 1

Driller's License Number

Driller's Signature

Bert Van Dyken

+ 3 888

STATE OF MONTANA.

*Woodrow Hensley*

*Woodrow Hensley*

having first been duly sworn, deposes and says

that *holding* of lawful age and *is* the appropriator  
and claimant of the order and water right mentioned in the foregoing notice of  
completion of groundwater appropriation by means of well and the person whose name  
subscribed thereto, as the appropriator and claimant, that *he* knows the  
contents of said foregoing notice and that the matters and things therein stated are true.

*Woodrow Hensley*  
BY *Woodrow Hensley*  
OF THE COUNTY OF *Blaine* STATE OF MONTANA

Subscribed and sworn to before me this 7th day of March 1908.

322-322-  
COUNTY OF *Blaine*  
STATE OF MONTANA  
I, *Woodrow Hensley*,  
being duly sworn, depose and say

322-322-  
COUNTY OF *Blaine*  
STATE OF MONTANA  
I, *Woodrow Hensley*,  
being duly sworn, depose and say

322-322-  
COUNTY OF *Blaine*  
STATE OF MONTANA  
I, *Woodrow Hensley*,  
being duly sworn, depose and say

322-322-  
COUNTY OF *Blaine*  
STATE OF MONTANA  
I, *Woodrow Hensley*,  
being duly sworn, depose and say

322-322-  
COUNTY OF *Blaine*  
STATE OF MONTANA  
I, *Woodrow Hensley*,  
being duly sworn, depose and say

322-322-  
COUNTY OF *Blaine*  
STATE OF MONTANA  
I, *Woodrow Hensley*,  
being duly sworn, depose and say

322-322-  
COUNTY OF *Blaine*  
STATE OF MONTANA  
I, *Woodrow Hensley*,  
being duly sworn, depose and say

322-322-  
COUNTY OF *Blaine*  
STATE OF MONTANA  
I, *Woodrow Hensley*,  
being duly sworn, depose and say

322-322-  
COUNTY OF *Blaine*  
STATE OF MONTANA  
I, *Woodrow Hensley*,  
being duly sworn, depose and say

322-322-  
COUNTY OF *Blaine*  
STATE OF MONTANA  
I, *Woodrow Hensley*,  
being duly sworn, depose and say

322-322-  
COUNTY OF *Blaine*  
STATE OF MONTANA  
I, *Woodrow Hensley*,  
being duly sworn, depose and say

STATE OF MONTANA  
County of *Blaine*  
I, *Woodrow Hensley*,  
being duly sworn, depose and say  
that the foregoing is true to the best of my knowledge and belief.  
Subscribed and sworn to before me this 7th day of March 1908.  
By *Woodrow Hensley*  
Notary Public for the State of Montana

43878

RECEIVED

County BROADWATER

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 WOODROW HENSLEY

Address TOSTON, MONT.

Date well started Oct. 26/72

completed Nov. 14/72

Type of well Drilled

Equipment used Reverse Rotary rig

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☒

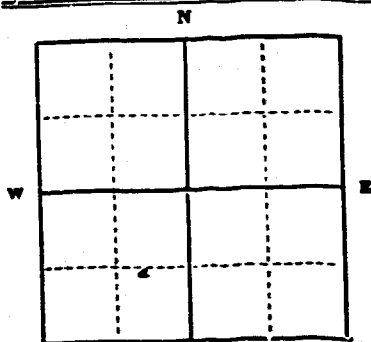
Industrial ☐ Drainage ☐ Other ☐ \* Gardens/Lawn ☐

\*Describe

If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition). S. 1/4 Section 15 T. 15 N. R. 1 E.

ESTIMATED ANNUAL WITHDRAWAL 311,000,000 gal

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
32"	16" O.D. 4" Wall tested, P.B.	0	212	none		
32"	16" O.D. 7 Ga.	212	342'	3/16" X 2" Slots	212	342'



Static water level 125 ft.  
Pumping water level 216 ft.  
at 2000 gallons per minute,  
measured 5 minutes after pumping  
began.

\*Measured from ground level.  
Well developed by Raw hiding.  
for 10 hours.

Power            Pump            HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff) Casing is

centered in 32" hole and gravel  
packed from 120' to 360'.  
Puddled wet clay fill  
shutoff outside of casing  
from 120' to surface.

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

Driller's Signature [Signature]

Driller's Address VAN DYKE DRILLING CO.

BOZEMAN, MONTANA

LICENSE NO. 1

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)		
From (Feet)	To (Feet)	
0	14	Clays.
14	18	Gravels, and large boulders.
18	24	Loose clean gravels.
24	32	Hard cemented gravels.
32	87	Claybound sand and gravels.
87	130	Claybound sand and gravels, with lenses of clay and cemented gravels.
130	134	Cemented gravels. Wet.
134	146	Clays, Dry.
146	163	Gravels, Water.
163	175	Gravels with thin lenses of clays. Water.
175	212	Alternate lenses of gravels and clays. Water in gravels.
212	216	Hard cemented gravels.
216	227	Claybound gravels.
227	233	Clays.
233	248	Cemented and claybound gravels with two lenses of 2' clays.
248	266	Cemented and claybound gravels, with clay lenses. Water.
266	267	Sandstone. Water.
267	313	Alternate lenses of cemented and claybound gravels, and clay lenses, each 2' to 4' thick. Water.
313	330	Claybound gravels. Water.
330	344	Large cleaner gravels. Water.
344	360	Clays, Dry.

160' 342' Show exact depth of bottom

525 073

80557

STATE of MONTANA  
County of Broadwater

ss.

I hereby certify that the within in-  
strument was filed for record in my  
office on the 22nd day of  
Dec A. D. 1972 at  
4:5 min. past 10  
o'clock 9 M.

Francis H. Miller  
County Recorder

By

Deputy

GW

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

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

T 4 N R 1 E

DUPLICATE

County Broadwater

LOG RECEIVED  
MAR 19 1969

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

0 Top Soil  
3 Gravel  
22 Brown Clay  
45 Gravel  
70 Brown Clay  
95 Cemented Gravel  
120 Brown Clay  
135 Clay & Gravel  
202 Coarse Brown Sandstone (water)  
210 Brown Clay (dry)  
220 bottom.....

# Notice of Completion of Groundwater Appropriation by Means of Well

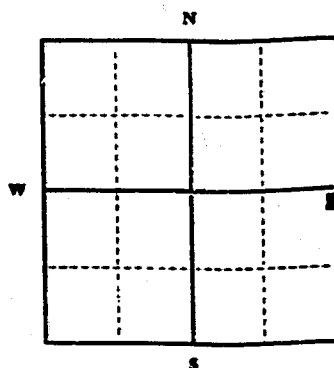
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner JOHN WILLIAMS Address Radnersburg, Mont.Driller Barrus Drilling & Pump Address Butte, Mont.Date of Notice of appropriation of groundwater Feb. 27, 1969Date well started Feb. 18, 1969 Date completed Feb. 27, 1969Type of well Drilled Equipment used 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 (Feet)
6 in.	6" ID .250 17.02 lbs	212 0 ft	206	2 inch 1/2 X 4	202'	203'



NE 1/4 Sec 17 T 4 N R 1 E  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 190 feet.Shut-in Pressure for Flowing Well NAPumping Water Level 200 feet  
at 7 gal. per minute.Discharge in gal. per min. of flowing well NAHow Tested BailerLength of Test 2 hrs

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

Water is coming from sandstone some through perforations and some below the 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).

NA

Show exact depth of bottom.

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

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

NO. 179

Driller's License Number

Mortimer J. Barrus

*Mortimer J. Barrus*  
Driller's Signature.

45,068

T A N R I A

County Broadwater

LOG

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level)

MAR 19 1969

# Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

 0  
 3  
 22  
 45  
 70  
 95  
 120  
 135  
 202  
 210  
 220

Top Soil

Gravel

Brown Clay

Gravel

Brown Clay

Cemented Gravel

Brown Clay

Clay &amp; Gravel

Coarse Brown Sandstone  
(water)

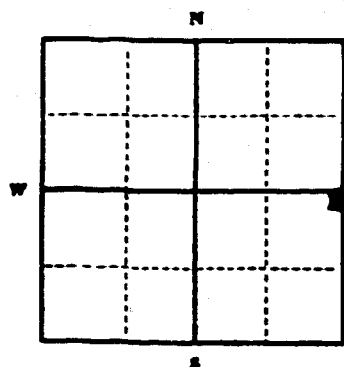
Brown Clay (dry)

..... bottom.....

Owner JOHN WILLIAMS Address Radarsburg, Mont.Driller Barrus Drilling & Pumping Butte, Mont.Date of Notice of appropriation of groundwater Feb. 27, 1969Date well started Feb. 18, 1969 Date completed Feb. 27, 1969Type of well Drilled Equipment used 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 and Size	From (Feet)	To (Feet)
6 in.	6" ID .250 17.02 lbs	0 ft	206	torch 1/4 X 1/4	202'	205'



NE 1/4 Sec. 17 T. 4N R. 1E  
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 190 feet.Shut-in Pressure for Flowing Well NAPumping Water Level 200 feetat 7 gal. per minute.Discharge in gal. per min. of flowing well NAHow Tested BailerLength of Test 2 hrs

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

Water is coming from  
 sandstone some through  
 perforations and some  
 below the 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).

NA

Show exact depth of bottom.

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

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

NO. 179

Driller's License Number

Mortimer J. Barrus

Driller's Signature



STATE OF MONTANA }  
County of Broadwater }

John Williams having first been duly sworn, depose and say that he is of lawful age and the appropriator and claimant of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

John Williams

Subscribed and sworn to before me, this 17th day of March, 1919.

Francis Chamberlain  
Notary Public for the State of Montana

Residing at Deputy Co. Clerk

My Commission expires \_\_\_\_\_ 19\_\_

76391

Groundwater Appropriation  
by means of Well.

John Williams  
to  
Co. Clerk et al

STATE OF MONTANA }  
County of Broadwater }

I hereby certify that the within instrument was filed for record in my office on the 17th day of March A. D. 1919 at

50 min. past 2

o'clock P. M.

Francis Chamberlain  
County Recorder  
Deputy Co. Clerk

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

DUPLICATE

✓ T 4N R 1-E

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER  
Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Tom Williams Address Redeberg, Mont.  
Driller Van Dyken Drilling Co. Address Bozeman

Date of Notice of Appropriation of Groundwater noneDate well started Feb 27/62 Date Completed March 15/62

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

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

0  
to  
150 gritty clays  
139-144-59 P.M.

150  
to  
182 soft sandstone  
clay binder

182  
to  
200 hard sandstone (dry)

200  
to  
230 clay (yellow)

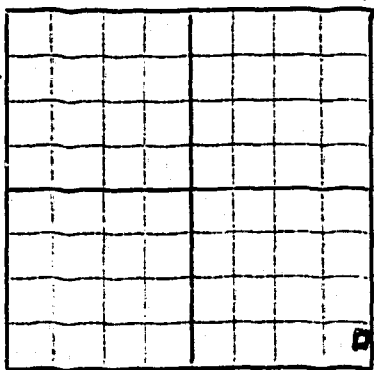
230  
to  
245 soft sandstone

245  
to  
265 Red Clays

265 to 270 hard sandstone (dry)

270 to  
291 gritty  
clay

70 to 287-36 P.M.  
100 ft



SE 1/4 SE Sec 19 T4 R1-E  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8" O.D. 17 # PRIME STEEL	0	275' 10"	4" X 3"	139-	141
				SLOT	143-	146

Static Water Level for non-flowing Well 120 feet.Shut-in Pressure for Flowing Well nonePumping Water Level 225 feet at 8 gal. per minute.Discharge in gal. per min. of flowing well noneHow Tested Bailer Length of Test 3 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)

License No. 1  
Driller's License Number

Bert Van Dyken  
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.

RECEIVED  
APR 10 1962

STATE ENGINEER

68507

STATE OF MONTANA ) ss.  
County of Broadwater. )

I hereby certify that the within  
instrument was filed for record in my  
office on the 4 day

April A.D. 1962

min. past 1  
o'clock P.M.

Ann Marie Steiner  
County Recorder.

LeRoy W. Riley Deputy

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

DUPLICATE

County BROADWATERSTATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

JUL 8 1964

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' -- 8' Soils, clays.  
8' -- 13' Boulders and gravels  
13' -- 26' Yellow clays.  
26' -- 38' Boulders and gravels.  
38' -- 46' Clays with small  
          gravels.  
46' -- 50' cemented gravels.  
50' -- 52' Clays.  
52' -- 58' Cemented boulders  
          and gravels.  
58' -- 60' Gritty clays.  
60' -- 102' Lightly cemented  
          boulders and gravels.  
102' -- 104' Small cemented gra-  
          vels and sandstone  
104' -- 107' Yellow clays.  
107' -- 115' Small cemented gravels  
          and sand.  
115' -- 123' Small gravels em-  
          bedded in clays.  
123' -- 127' Yellow clays.  
127' -- 131' Clays with few  
          pebbles.  
131' -- 154' Cemented small  
          gravels.  
154' -- 158' Gritty clays and  
          sandstone  
158' -- 195' Cemented sand and  
          gravels.  
195' -- 199' Gritty clays.  
199' -- 238' Cemented sand and gravels.  
238' -- 240' Gritty clays.  
240' -- 244' Gravels, clay bound.  
244' -- 248' Hardpan clays.  
248' -- 314' Cemented gravels  
          with clay lenses.

Owner Andrew Hemaley Address Teston, Mont.Driller Wyken Drilling Co. Address Baseman, Mont.Date of Notice of Appropriation of Groundwater noneDate well started June 11/64 Date Completed June 27/64Type of well Drilled Equipment Used Reverse Rotary  
(dug, driven, bored or (Churn, drill, rotary or  
drilled) 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)
32"	16" O.D. 4" Wall	0'	332'	3/16"	140'	160'
				1 1/4"	172'	187'
					207'	247'
					262'	332'

Static Water Level for non-flowing Well 59' 6" feet.Shut-in Pressure for Flowing Well nonePumping Water Level 110' feet at 34.20 gal. per minute.Discharge in gal. per min. of flowing well noneHow Tested Turbine Pump Length of Test 6 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 Well is Gravel

packed in annular space between 32" hole and 16" casing with 3/16" to 7/16" washed and screened gravels to 408 from surface. Well will be used

Show exact depth of bottom.

to irrigate over 500 acres of crop land.

License No. 1  
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.

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.

38255(a)

71539

Notice

Completion of water well.

Woodrow M. Hensley

STATE OF MONTANA } ss.  
County of Broadwater.

I hereby certify that the within in-  
strument was filed for record in my  
office on the 7th day of

July A.D. 1964 at  
25 min. past 8

o'clock A.M.

Anna Marie Johnson  
County Recorder.

By Gladys Johnson Deputy.

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

DUPLICATE

Approved Stock Form—State Publishing Co., Helena, Montana—32496

T. 4 N. R. 1 E.

County BROADWATER

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 3 1963  
STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1860

Owner Woodrow Hensley Address Toston, Montana

Contractor (if any) owner

Address of Contractor predecessors in interest  
approximately 1960

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

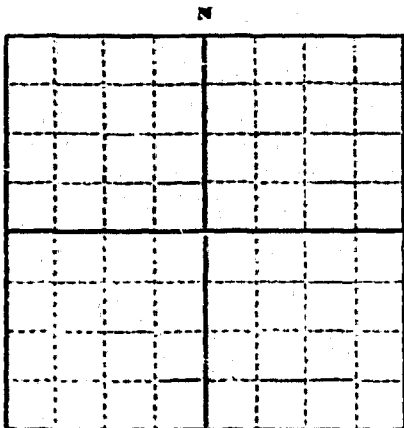
Describe means of obtaining groundwater without a well "as by  
sub-irrigation and other natural processes". Include depth to  
water when applicable.

See addendum.

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 \_\_\_\_\_

see addendum.



23 24  
1/4 Sec. T. 4 N. R. 1 E.

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

Signature of Owner Woodrow Hensley

Date December 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; Triplicate to the Montana  
Bureau of Mines and Geology and Quadruplicate for the Appropriator.

18756

ADDENDUM

WOODROW HENSLEY  
TOSTON, MONTANA

The appropriator is the owner of the old Hockel Place in the Crow Creek Valley, including irrigated acreage in Section 23 and 24, Twp. 4 N. R. 1 E. M.P.M., Broadwater County, Montana.

In the 1860's, exact date unknown, predecessors in interest of this appropriator first improved a large spring known locally as "Mammoth Springs", a reservoir was erected to impound the water from the springs, the reservoir being known sometimes as "Plunkett Lake". To the best of your appropriator's knowledge and information, predecessors in interest of your appropriator sold and transferred one-half of the rights to these waters to an adjoining ranch now occupied by Casier and Sons. The spring produces approximately 9 second feet of water in continuous flow, the reservoir impounds 90 acre feet and the water is used for incidental stock watering and for irrigation. Your appropriator irrigates approximately 370 acres of crop land in Sections 23 and 24. The use of this water has been continuous since the 1860's and your appropriator has reason to believe that the rights in and to the Mammoth Springs have heretofore been adjudicated and determined although the present Clerk of Court cannot find the express order providing therefor and the abstract of title is presently unavailable. Your appropriator makes claim for all of the waters which might have been decreed to him by order and which have been used by him and his predecessors in interest continuously since sometime in the 1860's.

70947

STATE OF MONTANA )  
County of Broadwater. ) ss.

I hereby certify that the within in-  
strument was filed for record in my  
office on the 31 day of

Dec A.D. 1963  
50 min past 3

o'clock P.M.  
Chas. M. Stiles  
County Recorder.

Re \_\_\_\_\_ Depute.

the 1960's. The 1960's were a time of great change in Montana. The state was experiencing a period of rapid growth and development. The population was increasing, and the economy was expanding. The state was also experiencing a period of social and political change. The 1960's were a time of great change in Montana. The state was experiencing a period of rapid growth and development. The population was increasing, and the economy was expanding. The state was also experiencing a period of social and political change.



23

File No.

T. 4 N. R. 1 E.

DUPLICATE

County Broadwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

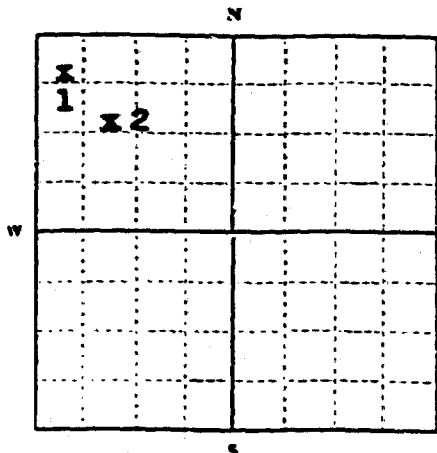
JAN 3 1963

ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Woodrow Hensley, of Toston,  
(Name of Appropriator) (Address) (Town)  
County of Broadwater State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 23 T. 4 N. R. 1 E.

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

2. The beneficial use on which the claim is based domestic, stock watering and irrigation. 1930.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Well No. 1 approx. 1890; Well No. 2, approx. 1930, both have been used, continuously.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) No. 1, 5,000 gal. per day. No. 2, 20,000 gal. per day.

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 surround lands in Section 23.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater No. 1, 1890; No. 2, 1930; electric pumps used for withdrawal of water.

8. The depth of water table No. 1, well 60 feet deep, water standing at 55 feet. No. 2, well 100 feet deep, water standing at 55 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 No. 1, dug well, rock walls, drilled to 60 feet, with 6" casing. No. 2 is a drilled well, 6" steel casing. Electric pumps in both.

10. The estimated amount of groundwater withdrawn each year No. 1, 825,000 gallons. No. 2, 7,300,000 Gallons.

11. The log of formations encountered in the drilling of each well if available no log available.

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

Signature of Owner Woodrow M. Hensley  
Date December 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.

18753

70944

STATE OF MONTANA )  
County of Broadwater. ) ss.

I hereby certify that the within in-  
strument was filed for record in m.  
office on the 31 day of  
Dec A.D. 1963 at  
45 min. past 3  
o'clock P.M.

Chas. M. Stone  
County Recorder.

B- \_\_\_\_\_ Deputy.

27

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

T. 4 N. R. 1E

DUPLICATE

County Broadwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 1 1964

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

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1963

Owner Casler & Sons Address Toston

Contractor (if any) not applicable

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. used for irrigation & stock

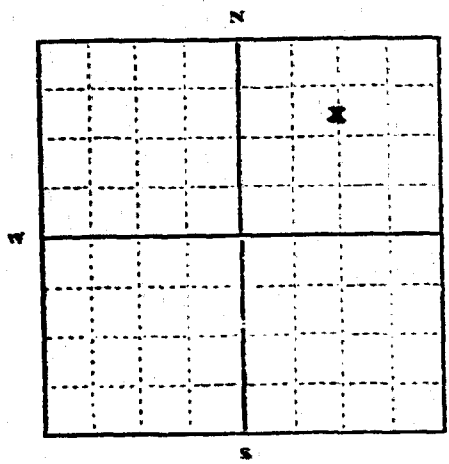
Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use \_\_\_\_\_

10-2nd foot year around used on Sections 13 & 14 AN 1E

Signature of Owner [Signature]

Date Dec 27-1963



NE 1/4 Sec 27 T. 4N R. 1E  
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.

18594

70780

STATE OF MONTANA )  
County of Broadwater. ) ss.

I hereby certify that the within  
instrument was filed for record in my  
office on the 27<sup>th</sup> day of  
December A.D. 1963 at  
35 min. past 4  
o'clock P. M.

Anna Marie Thier  
County Recorder.

By Shirley Johnson Deputy.

GW2

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

DUPLICATE

T 4 N R 1 E

County Broadwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER APR 17 1963

# Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Thomas William Address Radamsburg, Mont  
Driller Albert Heck Address Harlowton, Montana

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

Date well started April 1 Date Completed April 15

Type of well Drilled Equipment Used Cable Tool  
(dug, driven, bored or (Churn, drill, rotary or  
drilled) 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 1/2"	6 1/2" S. R. 14 lb. pipe	1	135	1/2" slot	50	135

1-25 "red clay"

45-50 Sand &amp; gravel

50-65 Shale and rock

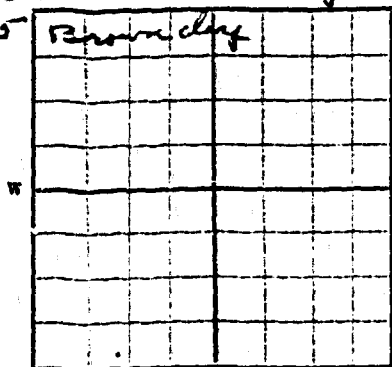
water at 50 ft 3 gal per min

65-80 yellow shale

water at 90 ft 3 gal per min

80-130 Brown rock &amp; clay

130-135 Brown clay



SE 1/4, Sec. 32, T4N R1E

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

Show exact depth of bottom.

Static Water Level for non-flowing Well 35 feet.

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

Pumping Water Level 50 feet at 6 gal. per minute.

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

How Tested Baler Length of Test 3 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) \_\_\_\_\_

Driller's License Number 114Driller's Signature Albert HeckDriller's Signature Q. C. St. and Drilling Service

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.

4199

69888

STATE OF MONTANA } ss.  
County of Broadwater }

I hereby certify that the within instrument was filed for record in my office on the 16 day of April A.D. 1963 at 35 min. past 2 o'clock P.M.

Anna Marie Steiner  
County Recorder.

By Gladys Johnson Deputy.

APR 16 1963

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

MONTANA WATER RESOURCES BOARD

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

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

DUPLICATE

**RECEIVED**County Broadwater

LOG

AUG 16 1967

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)

Owner JOHN F WILLIAMS Address RAIDERS CANYON MONTDriller POTTS DRILLING Address BOZEMAN MONT

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

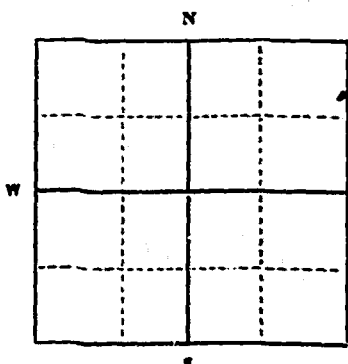
Date well started JUNE 29/67Date completed JUNE 29/67Type of well DRILLED  
(Dug, driven, bored or drilled)Equipment used CABLE TOOLS  
(Churn drill, rotary or other)

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 IN.	6 IN. I.D.	+3	43	NONE		
	17#					

Static Water Level for non-flowing well 12 feet.

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

Pumping Water Level 16 feet  
at 60 gal. per minute.

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

How Tested BAILERLength of Test 1 hr.

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).

Show exact depth of bottom.

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

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

Driller's License Number 150Driller's Signature Theresa Potts

42,206

STATE OF MONTANA } SS.  
COUNTY OF BROADWATER

I hereby certify that the instrument to which  
this certificate is affixed, is a true, correct and  
unimpaired copy of the original on file in the  
office of the Clerk and Recorder.  
Witness my hand and the seal of the County  
of Broadwater, this 15th day of

August 1967  
Marion Harrison  
CLERK and RECORDER

By \_\_\_\_\_ DEPUTY

1967 AUG 15 PM 1:10

1967 AUG 15 PM 1:10

1967 AUG 15 PM 1:10

1967 AUG 15 PM 1:10

1967 AUG 15 PM 1:10

1967 AUG 15 PM 1:10

1967 AUG 15 PM 1:10



File No.

T.

R.

ORIGINAL

County

Broadwater

LOG

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)

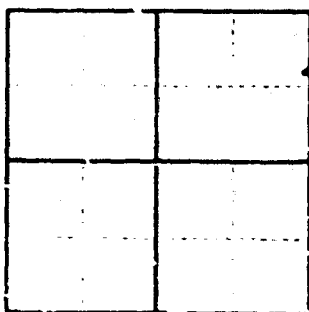
Owner JOHN F. WILLIAMS Address RAIDERS BERG MONT.Driller POTTS DRILLING Address BOLCHMAN MONT.

Date of Notice of appropriation of groundwater

Date well started JUNE 29/67 Date completed JUNE 29/67Type of well DRILLED Equipment used CABLE TOOLS  
(Dug, driven, bored or drilled) (Cable 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	From (Feet)	To (Feet)
6 IN.	6 IN. I.D.	+3	43	NONE		
	17#					

Static Water Level for non-flowing well 12 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 15 feetat 60 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested BAILERLength of Test 1 hr.

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

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.

This form to be prepared by driller and then filed by the owner with the County Clerk and Recorder. The County Clerk and Recorder to retain a copy to be retained by driller.

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

Driller's License Number

150  
Harold A. Potts  
Driller's Signature.

22418

STATE OF MONTANA

County of Broadwater ss.

John F. Williams

having first been duly sworn, depose and

say 2 that he is of lawful age and is the appropriator

and claimant of the order and water right mentioned in the foregoing notice of

completion of groundwater appropriation by means of well and the person whose name is

subscribed thereto, as the appropriator and claimant, that he know 2 the

contents of said foregoing notice and that the matters and things therein stated are true.

John F. Williams

Subscribed and sworn to before me, this 15<sup>th</sup> day of August 1967

Marianne Harrison  
Notary Public for the State of Montana. Co. Circle

Residing at

My Commission expires

19

74E33

John F. Williams  
Appropriation by  
Means of Well.

STATE OF MONTANA  
County of Broadwater  
I hereby certify that the foregoing  
statement was filed for record in my  
office on the 15<sup>th</sup> day of  
August A.D. 1967 at  
5 o'clock, P.M.

Marianne Harrison  
Notary Public  
Montana

October 18th 1967  
Marianne Harrison

## GROUNDWATER INDEX

Page            of           

County Brown Twp. 4N Rge. 2E

[illegible]

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

Section 4

T. 43 R. 23

DUPLICATE

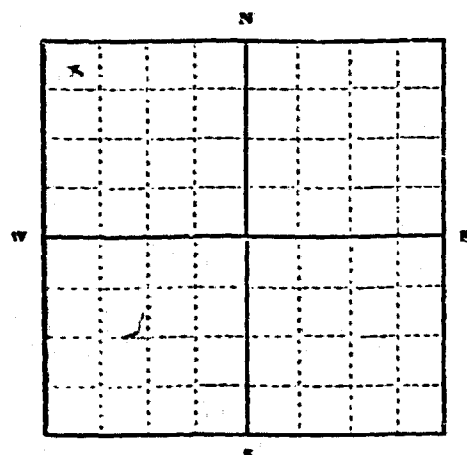
County Broadwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 3 1964

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

William G. Williams of Toston  
(Name of Appropriator) (Address) (Town)  
County of Broadwater State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Sec. 1 1/4 Sec. 4 T. 43 R. 23

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

2. The beneficial use on which the claim is based  
stockwater well
3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
April 1963 continuous use
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 25 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
\_\_\_\_\_  
\_\_\_\_\_
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater April 1963 (one week)
8. The depth of water table 12 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 40' deep 6" steel casing
10. The estimated amount of groundwater withdrawn each year 150 head of cattle for 12 months
11. The log of formations encountered in the drilling of each well if available  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature of Owner

William G. WilliamsDate December 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.

18746

70927

STATE OF MONTANA }  
County of Broadwater. } ss.

I hereby certify that the within instrument was filed for record in my office on the 31 day of Dec A.D. 1962 at 25 min. past 3 o'clock P.M.

Chas Marie Steiner  
County Recorder.

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

GW2

File No. 2229

DUPLICATE

T 4N R 2E

County Broadwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER  
OFFICE OF STATE ENGINEER

RECEIVED  
MAY 2 1963

Notice of Completion of Groundwater  
Appropriation by Means of Well ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

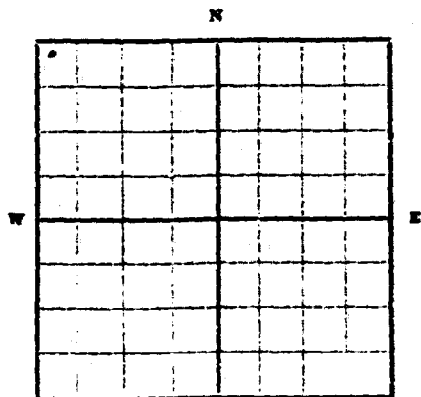
Owner Wm Williams Address RadonburgDriller Albert Heck Address Harlowton Mont

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

Date well started April 17-63 Date Completed April 17-63Type of well drilled Equipment Used Cable Tool  
(dug, driven, bored or (Churn, drill, rotary or  
drilled) 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 in	6 in L.D. 15 gal per ft	1	46	1/2 x 2 1/2 Slate	25	46



E 2 NW 1/4 NW 1/4

1/4 Sec. 4 T 4N R 2E

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

Show exact depth of bottom.

Static Water Level for non-flowing Well 12 feet.

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

Pumping Water Level 35 feet at 50 gal. per minute.

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

How Tested Baker Length of Test 2 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) \_\_\_\_\_

will be used for stock waterDriller's License Number 114Driller's Signature Albert Heck

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.

4304

69929

STATE OF MONTANA }  
County of Broadwater. }

I hereby certify that the within in-  
strument was filed for record in my  
office on the 1st day of  
May A.D. 1963 at  
5 min. past 9  
o'clock A.M.

Anna Marie Steiner  
County Recorder.

By Gladys Johnson Deputy.

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

T. 4N R. 2E

DUPLICATE

County Broadwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 27 1963

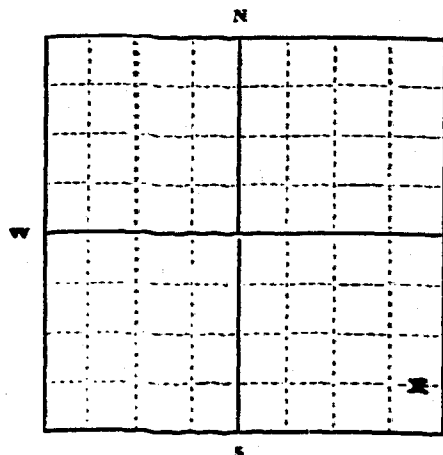
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Willis Rossfeld, of Toston  
(Name of Appropriator) (Address) (Town)

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



SS 1/4 Sec. 6 T. 4N R. 2E

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

2. The beneficial use on which the claim is based  
Stockwater household & garden
3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
August 1920 Continuous since
4. The amount of groundwater claimed (in miner's inches or gallons per minute)  
40 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
\_\_\_\_\_  
\_\_\_\_\_
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
\_\_\_\_\_  
\_\_\_\_\_
8. The depth of water table  
15 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  
5 inch 50 feet
10. The estimated amount of groundwater withdrawn each year  
500,000 gal.
11. The log of formations encountered in the drilling of each well if available  
\_\_\_\_\_  
\_\_\_\_\_
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record  
\_\_\_\_\_  
\_\_\_\_\_

Signature of Owner

Willis Rossfeld

Date

Dec 26, 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.



70714

IN VTR. OF MO.  
County of Broadwater.

I hereby certify that the within  
document was filed for record in  
office on the 26<sup>th</sup> day.

December A.D. 1963 at  
45 min. past 1

o'clock P.M.

Anna Marie Steiner  
County Recorder.

By Glady Johnson Deputy.

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

T. 4 N R 2 E

DUPLICATE

County Broadwater

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner DAN HUNSAKER Address TOSTON MONT

Driller PATTS DRILLING Address BORERMAN MONT

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

Date well started 12/8/69 Date Completed 12/11/69

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

0-18  
TOP SOIL

18-21  
FRAGMENTED SHALE

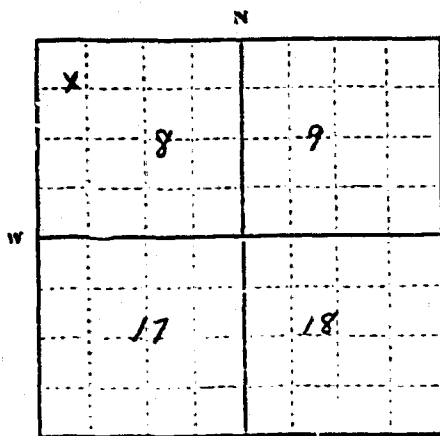
21-37  
SILTY SANDY CLAY

37-39  
FRAGMENTED SHALE

39-54  
SILTY SAND CLAY

54-65  
SANDSTONE

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" 20 + 1	62		1800	STAINLESS	
	19#			STAINLESS	SCREEN	
					57	62



NW 1/4 NW 1/4 Sec. 8 T 4 N R 2 E  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 17 feet.

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

Pumping Water Level 25 feet at 45 gal. per minute.

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

How Tested PUMP Length of Test 4 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)

JOC. No. 78559  
Filed for record  
this 31 day of MARCH  
A. D. 19 71 at 11:35  
o'clock P. M.

150  
Driller's License Number  
Ida A. Potts  
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.

48281

78559

STATE OF MONTANA } ss.  
County of Broadwater

I hereby certify that the within in-  
strument was filed for record in my  
office on the 31st day of

March A.D. 1971 at  
35 min. past "11

o'clock a.m.

Francis Henry  
County Recorder

By \_\_\_\_\_

RECORDED  
INDEXED  
MAY 1 1971  
CLERK OF DISTRICT COURT  
BROADWATER COUNTY, MONTANA

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

T 4 N. R. 2 E.

DUPLICATE

County, Broadwater

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 3 1962

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Smith and Lewis, of Poston  
(Name of Appropriator) (Address) (Town)  
County of Broadwater State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:


NW 1/4 Sec. 10 T 4 N R 2 E.

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

- The beneficial use on which the claim is based  
Stock water
- Date or approximate date of earliest beneficial use; and how continuous the use has been  
1947 Used continuous since that date
- The amount of groundwater claimed (in miner's inches or gallons per minute)  
20 gallons per minute
- If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
- The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Electric pump
- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
June 20, 1947 well started  
July 12, 1947 well completed
- The depth of water table  
140 feet
- 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 a 6 inch hole with a 6 inch iron casing to a depth of 200 feet
- The estimated amount of groundwater withdrawn each year  
600,000 gallons
- The log of formations encountered in the drilling of each well if available  
0 to 110 feet clay and broken rock  
110 to 200 feet rock and sand
- Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner

Jack Smith  
Junior Lewis  
December 27, 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.

18630