

Form No. 18  
8-60

T. 16 R. 25  
County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

APR 24 1961

STATE ENGINEER

WATER WELL LOG


Owner Ed J. Shabby Address H. of Tolson, Montana  
Driller George O. Simley Address Lewistown, Montana  
Date Started March 28, 1961 Date Completed April 19, 1961  
Location: Sec. 11 T. 16 R. 25  $\frac{1}{4}$  sec. SESE<sup>4</sup>

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Above ground Industrial ☐ Drainage ☐ Other ☐

Casing: 2 ft. to 130 ft. Type 3 1/2" Size 5 - 3/16" ID

Casing: 170 ft. to 435 ft. Type 3 1/2" Size 4 1/2" ID

Casing:        ft. to        ft. Type        Size       

Perforated or Screened: Ft. 275 to ft. 310 . Ft. 390 to ft. 435

Type of screen or perforations Slots

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

Shut-in pressure, for flowing well: 25 lb./sq. in. on: April 18, 1961  
(date)

Pumping water level        feet at        gal. per min.

How tested:       

Length of test       

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

Sealed with sand. Casing cemented. Flows 25 gal. per min.

(over)

Depth, feet		Description of Material Drilled
From	To	
0	5	Topsoil
5	15	Gravel
15	20	Soft blue clay
20	30	Hard light grey rock
30	60	White rock later First Cat Creek Sand
60	110	Light grey stratified rock and shale
110	115	Light purple shale Top of Red Bed
115	116	White hard rock
116	130	White shale
130	133	Light red rock
133	140	Soft red shale
140	155	White clay soft
155	170	Red shale
170	230	Red rock and shale
230	272	Rock and sandstone
272	273	Red rock
273	295	White sandstone later
295	300	Red rock
300	310	White sandstone later
310	311	Red shale
311	340	Light red rock and shale
340	345	Light red rock
345	375	White rock later
375	401	White sandstone later
401	410	White clay
410	411	Red rock later
411	412	Red rock later
412	413	Red rock later
413	414	Red rock later
414	415	Red rock later
415	416	Red rock later
416	417	Red rock later
417	418	Red rock later
418	419	Red rock later
419	420	Red rock later
420	421	Red rock later
421	422	Red rock later
422	423	Red rock later
423	424	Red rock later
424	425	Red rock later
425	426	Red rock later
426	427	Red rock later
427	428	Red rock later
428	429	Red rock later
429	430	Red rock later
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433	434	Red rock later
434	435	Red rock later
435	436	Red rock later
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471	472	Red rock later
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474	475	Red rock later
475	476	Red rock later
476	477	Red rock later
477	478	Red rock later
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482	483	Red rock later
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484	485	Red rock later
485	486	Red rock later
486	487	Red rock later
487	488	Red rock later
488	489	Red rock later
489	490	Red rock later
490	491	Red rock later
491	492	Red rock later
492	493	Red rock later
493	494	Red rock later
494	495	Red rock later
495	496	Red rock later
496	497	Red rock later
497	498	Red rock later
498	499	Red rock later
499	500	Red rock later

82  
 1/10

19395

STATE OF MONTANA, } ss.  
 County of Petroleum.  
 Filed April 21 1961  
 at 3:50 o'clock P. M.  
Helma R. Merten  
 County Recorder.  
 Deputy

60	110	Light grey stratified rock and shale
110	113	Light purple shale top of red rock
113	115	White hard rock
115	120	White shale
130	133	Light red rock
133	140	Soft red shale
140	155	White clay soil
155	170	Red shale
170	230	Red rock and shale
230	272	Rock and sandstone
272	273	Red rock
273	295	White sandstone water
295	310	Red rock
310		White sandstone water

File No. ....

DUPLICATE

Flowing  
**RECEIVED**  
 FEB 13 1962

T. 11 R. 25

County Petroleum

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

**RECEIVED**  
 FEB 13 1962

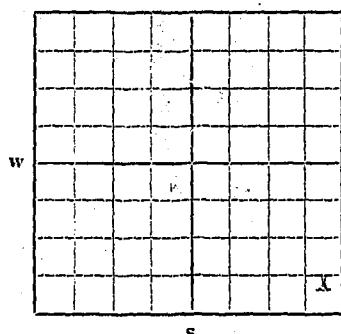
**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Edward J. Skibby of Box 123 Lewistown  
 (Name of Appropriator) (Address) (Town)

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



SE 1/4, SE 1/4, Sec. II, T. R. 25

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 Livestock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
Earliest use, April 19, 1961, this well has been  
in continuous use since that date.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 25 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
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
This well is flowing thru a casing 4" dia.  
at a rate of 25 gals. per. Min. pressure 25 lbs.  
per. squ. inch.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Well commenced about April 1st, completed April 19th 1961
8. The depth of water table 350 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 depth of well 435 feet, flowing thru  
4 1/2 casing, from 3rd Cat. Creek sand.
10. The estimated amount of groundwater withdrawn each year 5,256,000 gal
11. The log of formations encountered in the drilling of each well if available 0 to 20' to 110' rock hard and soft, 110' to red beds, red  
230' to 310' some sandstone and some water at 300'. 310' to 407' red and white rock, hard silicate at 407'  
blue grey sandstone, water at 415 ft.
12. Such other information of a similar nature as may be useful in carrying out the purpose of this act, including reference to book and page of any county record Water soft, tempera. 80 to 88°  
fine stock water.

Signature of Owner E. J. SkibbyDate Feb 1 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 School of Mines and Quadruplicate for the Appropriator.

1334.

20032

#141  
V.D.

STATE OF MONTANA, } ss.  
County of Petroleum.

Filed FEB 9 1962 19

at 9:00 o'clock A M.

Velma R. Merten

County Recorder.

*Velma R. Merten*

T. 16 N. R. 25 East

County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG

STATE LANDS


Owner <sup>DeVoe</sup> Don DeVoe Address Taigen, Montana

Driller Livingston-Boles Drilling Co. Address Minnett, Montana

Date Started September 14, 1947 Date Completed October 26, 1947

Location: Sec. 18 T. 16 N. R. 25 E 1/4 sec. 32

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

Water use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: 1 ft. to 1081 ft. Type 2.2 Steel Casing Size 4" Shoe on bottom

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 perforated pipe shoe on bottom

Static Water level, for non-flowing well: feet

Shut-in pressure, for flowing well: 80# flowing 80 Galb./sq. in. on: gallon per minute  
October 26, 1947 (date)

Pumping water level feet at gal. per min.

How tested: Drill stem test 1080-1103

Length of test

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

well capped with manual shut off

(over)

Depth, feet	From	To	Description of Material Drilled
981	932		sand with streaks gray shale
932	940		gray sand, pebbles and salt
940	947		soft gray, red shale
947	950		gray sand, streaks white shale
950	955		soft red shale, sandy

Log of Well

Depth, feet			Description of Material Drilled
From	To		
1	12		surface clay
12-	15		gravel
15	20		gravel and streaks of clay or shale
20	27		hard black shale
27	60		hard shale with streaks sand(water)
60	75		soft gray and black shale
75	111		soft black shale
111	173		soft black shale with streaks bentonite
173	267		soft black shale, streaks bentonite and streaks hard gray shale
267	409		soft black shale, streaks bentonite and streaks sand
409	440		soft black shale
440	446		soft black shale streaks bentonite
446	449		sand (gray, soft)
449	465		dark gray sand with thin streaks black and gray shale
465	485		soft black shale streaks sand and streaks bentonite
485	540		soft black and gray shales streaks bentonite
540	547		soft black shale streaks dark sand
547	565		soft black shale
565	585		soft black and gray shales with streaks sand and thin streak lime
585	622		soft black and gray shales, streaks sand and streaks hard gray shale
622	625		soft gray sand
625	648		soft black sandy shale with streaks bentonite
648	662		soft black shale
662	683		hard brown shale
683	683		medium hard gray sand with streaks gray shale
683	685		soft black shale
685	686		hard brown shale
686	715		soft black shale, streaks sand and gray shale
715	747		soft gray sand
747	760		soft green and black shale
760	787		soft green, gray, black shales (clayey)
787	809		soft red, gray, black shales
809	810		hard gray shale
810	830		soft black, red, gray shale (clayey)
830	847		soft red shale, streaks white and black shales
847	858		hard black and gray shale
858	860		hard gray shale and iron pyrites
860	862		white to gray shale
862	863		soft gray sand
863	866		soft red shale
866	869		soft gray sand
869	878		gray sandy shale
878	880		soft red shale (clayey)
880	885		brown to yellow shale
885	896		white shale, sandy
896	903		hard gray shale, thin streaks lime
903	908		soft, red, gray green, purple, white shale
908	913		soft light red shale, sandy, muddy
913	920		white sand (medium hard)
920	921		soft gray and white shales





20

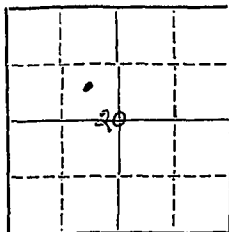
T. 16 R. 25

County. PETROLEUM

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, MontanaRECEIVED  
JAN 3 1952

## WATER WELL LOG

STATE ENGINEER



Owner LAURA WALKER Address TEIGEN, MONT.

Driller MURRY A. COTTRELL Address ROY, MONT.

Date Started NOV. 1 - 1952 Date Completed

Location: Sec. 20 T. 16 R. 25 1/4 sec. NE 1/4 NW 1/4

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: \_\_\_\_\_ ft. to 1170 ft. Type \_\_\_\_\_ Size 2 INCH

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

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

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

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

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

Shut-in pressure, for flowing well: 6.0 lb./sq. in. on: DEC. 15 - 1952 (date)

Pumping water level: \_\_\_\_\_ feet at \_\_\_\_\_ gal. per min.

How tested: \_\_\_\_\_

Length of test: \_\_\_\_\_

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

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

©

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0'	0'	
0'	15'	Gravel
15'	30'	Black shale & Bentonite
30'	90'	broken formation, sand rock, shale & Bentonite.
35'	50.4'	sand, water vein, pumping
90'	180'	still losing mud, put in 2 1/2 sacks aquaplast (mud)
180'	225'	good drill being shale & Bentonite.
225'	310'	squealing red rock, shale & Bentonite.
310'	410'	shale and gumbo
410'	530'	hard shale and rock formation.
530'	550'	shale, hard formation
550'	610'	shale & Bentonite (made mud)
610'	630'	shale, hard formation
630'	650'	shale & soft formation
650'	720'	shale rock, hard formation
720'	735'	hard jerky rock, shale
735'	850'	Bentonite, hard shale
850'	870'	hard shale and rock
870'	875'	struck red shale, first cat creek sand
875'	972'	red shale soft
972'		struck rocks hard drilling
972'	1060'	shale, hard rocks, some Bentonite
1060'	1072'	struck, lime rock & soft rock.
1072'	1076'	hard lime rocks (jumpy drilling)
1076'	1091'	shale, hard lime rock.
1091'	1110'	hard lime rock. 1110' out of hard rock
1110'	1150'	fine shale, soft.
1150'	1170'	shale, dirty sand &
		Artesian water. 25 gallons per.

180	310'	green sandstone
225'	310'	shale and gumbo
310'	410'	shale and rock formation
410'	530'	hard shale and formation
530'	550'	shale, hard bit. (inside mud)
550'	610'	shale & bentonite formation
610'	630'	shale, hard formation
630'	650'	shale & soft formation
650'	720'	shale rock, hard formation
720'	735'	hard rocky and shale
735'	850'	light white sand rock
850'	870'	hard shale and rock
870'	895'	hard red shale, first cat creek sand
895'	972'	red shale soft
972'	992'	struck rocks hard drilling
992'	1060'	shale hard rocks, some bentonite
1060'	1072'	shale hard rock & soft rock
1072'	1076'	struck lime rock (jumpy drilling)
1076'	1091'	hard lime rock
1091'	1110'	shale, hard lime rock
1110'	1110'	hard lime rock 1110' out at 1110'

19916

114  
U.R.M.

STATE OF MONTANA, } ss.  
County of Petroleum.  
Filed Dec 29 1961  
at 3:00 o'clock P. M.  
Helms R. Merten  
County Recorder.  
Deputy.

16N 25E 20  
County Petroleum

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 <u>Earl Walker</u>	For Administrator's Use
Address <u>No. Teigen</u>	File # <u>325, 27493</u>
	<u>Aug. 21, 1922 8:40</u>
Date well started <u>6-15-72</u>	GW 1
completed <u>9-16-72</u>	

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

Equipment used Rotary  
(Churn drill, rotary or other)

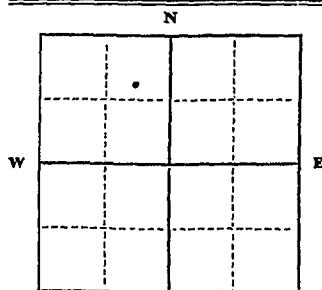
Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☐

\*Describe .....

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

## ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORMANCES		
				Kind Size	From (Feet)	To (Feet)
2 3/4	6 3/8	0	20			
6 5/8	4 1/2	20	400			
5 5/8	10.2	400	1450	cased to		1155
3 3/8	hole from 1155 to 1450					



N<sup>1</sup>/<sub>4</sub> N<sup>1</sup>/<sub>4</sub> Sec. 20  
T. 16 (N) R. 25 (E)

Static water level Flowing ft.\*  
Pumping water level .....ft.\*  
at .....gallons per minute,  
measured 2 minutes after pumping  
began.

\*Measured from ground level.

Well developed by .....  
for .....hours.

Power..... Pump..... HP

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

Paving set on top

3rd Cat Creek.

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

Driller's Signature T. Misamore

Driller's Address Heath Motel

LICENSE NO. 144

**DRIVER'S LOG**

Indicate the character, color, thickness of strata 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	650	Calc. Shale w/ Blue
650	720	sandy shale
720	805	1st Cat Creek Sand
805	940	1100 Calcs. shale
940	950	Heavy streaked Red sh
950	960	1st (1100 Calcs.)
960	963	Top sand cat
963	1005	Shale & shale to
1005	1100	shale w/ blue
1100	1156	gray sand
1156	1176	3rd cat sand
1176	1200	Red lime & shale
1200	1330	Red & gray sh
1330	1299	gray shale
1299	1301	Coal
1301	1345	shale & gray sand
		green & white
1330	1342	coal. made
		made to 11 1/2 lbs to coal.
1342	1372	1100 Cal shale
1372	1374	Swift sand.
		Shale Blk & some
		Brown pebbles to
		1450 feet
		Pressing set on
		3 ft sand with
		Pressing shale 1152

1450. Show exact depth of bottom

5/216-A

37493

# 325

L.W. 2  
Earl Walker

STATE OF MONTANA,  
County of Petroleum. }

Filed AUG 21 1972 19

at 8:40 o'clock P. M.

Orene Barbera  
Director of Records.

Deputy

23

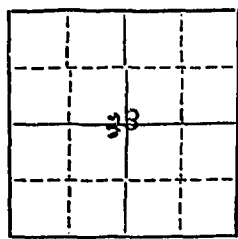
T. 16 R. 25  
County PETROLEUM

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER



Owner LAURA WALKER Address TEIGEN, MONT.

Driller Address

Date Started 1929 Date Completed

Location: Sec. 23 T. 16 R. 25 1/4 sec. NE 1/4 NW 1/4

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

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

Casing: ft. to 996 ft. Type Size 2 INCH

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations

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

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

Pumping water level: feet at gal. per min.

How tested:

Length of test:

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

(over)

19918

116  
O.R.M.

STATE OF MONTANA.  
County of Petroleum.

Filed Dec 29 1918

at 3:10 o'clock P.M.

Helmo R. Merten  
County Recorder.

Deputy.

T. 16 R. 25

County DEERBOLT

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

STATE ENGINEER

## WATER WELL LOG

	32	

Owner EARL WALKER Address TEIGEN, MONT.

Driller MURRY A. COTTRELL Address POY, MONT.

Date Started APR. 4 - 1952 Date Completed MAY 1, 1952

Location: Sec. 32 T. 16 R. 25 1/4 sec. NE 1/4 NW 1/4

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: \_\_\_\_\_ ft. to 133.5 ft. Type \_\_\_\_\_ Size 2 INCH

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

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

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

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

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

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

Pumping water level \_\_\_\_\_ feet at \_\_\_\_\_ gal. per min.

How tested: \_\_\_\_\_

Length of test \_\_\_\_\_

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

(over)



Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	35	surface, terrace, bentonite & into black shale
35	176	black shale and bentonite
176	180	hard rock
180	326	black shale & bentonite
326	380	rust beds, some rock
380	610	black shale and bentonite
610	680	black shale and sand rock
680	828	black shale, sand rocks & bentonite
828	828½	hard squeaking rock
828½	830	into shale and bentonite
830	1040	first cat creek sand, no water
1040	1120	struck red beds, second cat creek between beds
1120	1140	Hard rock
1140	1175	struck hard rock (drilling with gear bit)
1175	1280	struck all colors
1280	1320	third cat creek sand and water
1320	1335	Through third cat creek sand and
		to 10 ft. water, 7 gal per min.
19917 115 State of Montana, County of Petroleum, Filed Dec 29 1961 3:05 o'clock P. M. Helene R. Menden County Recorder		Deputy

## GROUNDWATER INDEX

Page \_\_\_\_ of \_\_\_\_

County Petroleum Twp. 16N Rge. 26E

[illegible]

*Petroleum*  
*GW*  
MONTANA WATER RESOURCES BOARD  
Water Resources Survey

*BK 5 15/22*

NOTICE OF APPROPRIATION

1. County *Lehigh* Book *4* Page *4* Record *Misc. Location*  
2. Name of Appropriator *G. P. BURNETT, JR.*

Address *Silt Edge*

3. Date Appropriated *10-14-22* Date Filed *10-16-22*

Amount Appropriated, Miners Inches *100 cu. in*, Cubic Feet, Per Sec.

4. Name of Stream *Well - GW in*

Tributary of Basin

5. Purpose, Irrigation: ☒ Domestic ☒ Stock ☐ Other ☐

6. Land Description of Intended Place of Use:

Quarter	Sec.	Twp.	Rge.	Quarter	Sec.	Twp.	Rge.
	<i>15 &amp; 22</i>	<i>16</i>	<i>26</i>				

7. Point of Diversion: *@ Well*

Quarter of Section Section *18* Township *16* Range *26*

Bank of Stream Left ☐ Right ☐ (Looking Downstream.)

8. Size of Ditch *6" OF Then direct to land*

Bottom Width Top Width Depth

Direction of Flow of Ditch

9. Remarks (Present Use Status, etc.)

RECEIVED  
JAN 26 1959

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

T. 16 N. R. 26 E.

County Petroleum

WATER WELL LOG

•	#	

Owner E. J. Slippy Address P.O. Box 123

Lewistown, Mont.

Driller W. L. Livingston Address 231 Winnett, Mont.

Date Started August 26, 1953 Date Completed Sept. 2, 1953

Location: Sec. 4, 2, 2 T. 16 N. R. 26 E. 1/4 sec. NW 1/4

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

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: ~~4 1/2" x 11' 6" to 237 ft.~~ Type Size

Casing: Ground level to 258' ft. Type Threaded Coupling Size 4 1/2" O.D. 11' per ft.

Casing: ft. to ft. Type Size

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

Type of screen or perforations:

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

Shut-in pressure, for flowing well: 145 lb./sq. in. on: 9/4/1953 (date)

Pumping water level: feet at gal. per min.

How tested:

Length of test:

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

Well flowed 75 gal. per minute. Casing set on packer in 4 1/2" Rat hole at 237 feet, with 1 joint of 4 1/2" O.D. pipe below packer. Hole size from top to 237 feet is 6 1/2" diam. from 237 to 303' hole is 4 3/4" in dia. Water did not leak by packer when shut in. Top collar set 5' below ground level and cemented 5'. Below collar. Collar 5' x 5' x 5' with concrete floor and walls.

(over)

# 4

County of Petroleum. } ss

at 7 o'clock 5 M.

Vedna R. Mertens

County Recorder.

John Schmitt  
Donitz.

### Log of Well

[illegible]

## GROUNDWATER INDEX

Page        of       

County Pothokey Twp. 16N Rge. 27E

[illegible]

25

T. 16 N. R. 27 E.  
County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
NOV 19 1957

WATER WELL LOG

STATE ENGINEER

	25	

Owner ~~Wm. Batten~~ (Wayne Batten) Address Minnett, Montana  
Driller E. L. Livingston Address Minnett, Montana  
Date Started October 12, 1957 Date Completed October 30, 1957  
Location: Sec. 25 T. 16 N. R. 27 E. 1/4 sec.

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: Drilled as an oil test and made into water well

Casing: 0 ft. to 60 ft. Type: Thread & Coupl. Size: 10 3/4" O.D.  
Casing: 1' above gnt. to 362 ft. Type: thread & Coupl. Size: 5" O.D. 1 1/4" Seamless  
Casing: ft. to ft. Type: Size: 8 round thread

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

Type of screen or perforations

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

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

Pumping water level: feet at gal. per min.

How tested: Well flowing 10 gallons per minute

Length of test

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

Casing set on top of the third Cat Creek sand and cemented with  
50 sacks of type 1 cement, and allowed to set 96 hrs before  
drilling the plug

(over)

## Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	70	Soft shale with some gravel at the top
70	555	Soft and firm dark shale with some bentonite beds and some lime concretions
555	565	Sand somewhat limy
565	570	Soft blue clay
570	605	Dark sandy shale
605	655	Sand with lenses of shale
655	680	Sand ( First C. G.)
680	815	Red and grey shales
815	855	Sand ( Second C. G.)
855	860	Red Clay
860	905	Hard sand
905	915	Soft sand
915	945	Hard limy sand and reddish brown dolomite and red clay
945	<del>967</del>	Red and grey shale and silt
<del>967</del>	1005	Sand ( third Cat Creek)
1005	1035	Harder sand and shale
1035	1287	Various colored shales( mostly tough rubbery grey shale) some hard sands and siltstones.
1287	1300	Red fine grained sand ( Top of the Allis)
1300	1304	Light tan grey sugary lime
1304	1310	" " " " "
1310	1328	Light fine grained sand

STATE OF ILLINOIS,  
County of Peoria.

*[Signature]*  
County Recorder.

*[Signature]*  
Deputy.

Nov 18 1957  
2:30 P.M.  
*[Signature]*

18. 12. 12

#16115

1934-1935

## Quantity of Petroleum

1981	Nov 18	1981
------	--------	------

5.30

Elmo H. Carter  
County Recorder.

Deputy,



## GROUNDWATER INDEX

Page \_\_\_\_ of \_\_\_\_

County Petroleum Twp. LEN Rge. 28E

[illegible]

T. 16 R. 28  
County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER

Repair Well 32


Owner: Wayne Bretten Address: Winnett, Montana  
Driller: George C. Singley Address: Lewistown, Montana

Date Started: Date Completed:

Location: Sec. 5 T. 16 R. 28 1/4 sec. S.W. 1/4 of the N.E. 1/4

Type of well: (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 278 ft. Type: 3 & 3 Size: 5 3/16 ID

Casing: ft. to ft. Type: Size:

Casing: ft. to ft. Type: Size:

Perforated or Screened: Ft. 180 to ft. 278 Ft. 112 to ft. 132

Type of screen or perforations: Slots

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

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

Pumping water level: 210 feet at 15 gal. per min.

How tested: Balancing

Length of test: 1 hr.

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

(over)

### Log of Well

[illegible]

19812

99  
B.R.M.

T. 16 R. 28  
County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
JUL 5 1961

WATER WELL LOG

STATE ENGINEER


Owner: Wayne Bratton On John Marty Place: Winnett, Montana  
At Corralis  
Driller: George C. Singley Address: Lewistown, Montana  
Date Started: August 13, 1958 Date Completed: Aug. 22, 1958  
Location: Sec. 6 T. 16 R. 28 1/4 sec. S. 7th of the S. 1/4

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other: \_\_\_\_\_  
Above ground

Casing: 2 ft. to 112 ft. Type S & S Size 6 OD

Casing: 105 ft. to 197 ft. Type S & S Size 4 1/2 OD

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 114 to ft. 175 Ft. to ft.

Type of screen or perforations: Slots

Static Water level, for non-flowing well: 130 feet.

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

Pumping water level: 155 feet at 15 gal. per min.

How tested: Baling

Length of test: 2 hrs.

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

Drive shoe Perforated Cave catchers Open top cylinder

(over)

## Log of Well

[illegible]

15015

182  
U. R. m.

GW3

File No. ....

DUPLICATE

T. 16 R. 28

County... Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 24 1962

STATE ENGINEER

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

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater ... January 22, 1962

Owner... Allan or Edna Bridger address... Winnett, Montana

Contractor (if any) ... none

Address of Contractor .....

Date Started... 1954 Date Completed... 1954

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

spring flow 1 1/2 gal. per minute

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

tent estimate approximate lengths of periods of use .....

steady use.

Signature of Owner... Edna Bridger

Date... January 22, 1962

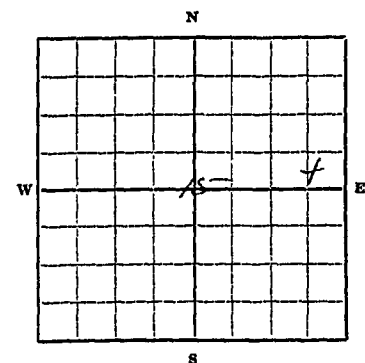
This form to be prepared by contractor (if any), otherwise by the owner.

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.

1234



SENE 1/4 Sec. 15 T. 16 R. 28.

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

1234

19974

#124  
V.D.

S. - 1000 MONTANA, ss.  
County of Petroleum.

Filed JAN 22 1962 19

at 4:30 o'clock P.M.

Valma R. Morton

County Recorder.

*Valma R. Morton*

Deputy

Fee 1.00

GW 3

File No. ....

DUPLICATE

SW

*this may be  
GWA? flowing well  
or SW?*

T. 16 R. 28

County Petroleum

RECEIVED  
JAN 24 1962

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

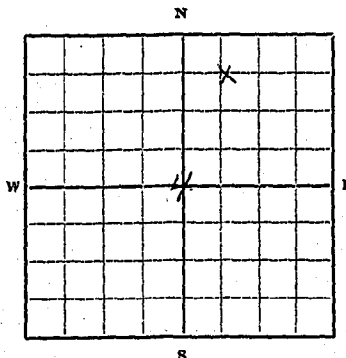
STATE ENGINEER

# Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater January 22, 1962Owner Allan <sup>or</sup> Edna Bridger Address Winnett MontanaContractor (if any) Davis & SonsAddress of Contractor Cat Creek MontanaDate Started Sept. 1961 Date Completed Sept. 1961

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

spring flow 1 gal. per minute

NWNE 1/4 Sec. 4 T. 16 R. 28

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

Quantity of water developed and used with explanation of meth-  
od used to measure or estimate such amount. If use is intermit-

tent estimate approximate lengths of periods of use

steady useSignature of Owner Allan BridgerDate January 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.

1234-A



19975

#125  
v.d.

STATE OF MONTANA. } ss.  
County of Petroleum. }

Filed JAN 22 1962 19

at 4:35 o'clock P.M.

Volcan R. Meritt

County Recorder.

*Helma Dawson*  
Deputy.

Fee 1.00

File No. 300

MONTANA WATER RESOURCES BOARD

DUPLICATE Replace well #2 RECEIVED

T. 16 R. 28County Petroleum

LOG

OCT 8 1969

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD

Top of Ground

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

0 1 Topsoil  
1 25 Sandstone  
25 30 Light blue slaty shale  
30 65 Varied shale  
65 77 Light grey sandstone  
77 95 Grey and brown shale  
95 98 Light green sandstone  
98 135 Brown grey varied shale  
135 180 Sandstone Water at 150-165

# Notice of Completion of Groundwater Appropriation by Means of Well

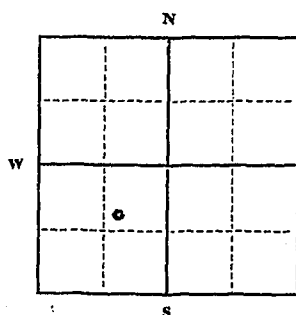
DEVELOPED AFTER JANUARY 1, 1962

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

Owner Gary Gershamel Address Winnett, MontanaDriller George O. Singley Address Winnett, MontanaDate of Notice of appropriation of groundwater NoneDate well started Sept. 19, 1969 Date completed Sept. 23, 1969Type of well Drilled Equipment used Rotary  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5-5/8	4" OD 4 1/2" ID Elastic Casing	0	180	5/16 holes	135	180

Static Water Level for non-flowing well 130 feet.Shut-in Pressure for Flowing Well NonePumping Water Level 165 feetat 15 gal. per minute.Discharge in gal. per min. of flowing well NoneHow Tested Bailing and AirLength of Test 1 hr.

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

NE 1/4 Sec. 3 T. 16 R. 28

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

19

Driller's License Number

Driller's Signature

45718

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.

Show exact depth of bottom.

(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).

26242

W. W. # 300

STATE OF MONTANA,  
County of Petroleum, ss.

Filed OCT 6 1969

at 1:35 o'clock P. M.

Doris Carrell  
Director of Records.

Fee: \$2.00

Deputy

DEPARTMENT OF REVENUE  
ADMINISTRATIVE SERVICES DIVISION  
DIVISION OF COMPTROLLER OF ACCOUNTS  
DIVISION OF GENERAL INVESTIGATION  
DIVISION OF INSURANCE  
DIVISION OF LABOR RELATIONS  
DIVISION OF LAND AND MINES  
DIVISION OF NATURAL RESOURCES  
DIVISION OF PUBLIC SAFETY  
DIVISION OF SOCIAL SERVICES  
DIVISION OF TAXATION  
DIVISION OF TRANSPORTATION  
DIVISION OF UTILITIES  
DIVISION OF WILDLIFE AND FISH  
DIVISION OF WORKERS' COMPENSATION

File No. 303T. 16 R. 28DUPLICATE Replace for Dry Hole  
Well #5 LOG

MONTANA WATER RESOURCES BOARD

STATE OF MONTANA

RECEIVED

ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARDCounty Petroleum

Top of Ground

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

OCT 8 1969

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

DEVELOPED AFTER JANUARY 1, 1962

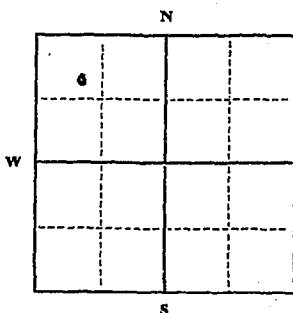
(Under Chapter 237 Montana Session Laws, 1961, as amended)

0. 1 Topsoil  
1 20 Yellow sand loose  
20 30 Yellow clay and loose rocks  
30 90 Bear Paw  
Water at 30 ft.

Owner Gary Gershmel Address Winnett, MontanaDriller George O. Singley Address Lewistown, MontanaDate of Notice of appropriation of groundwater NoneDate well started Sept. 18, 1969 Date completed Sept. 18, 1969Type of well Drilled Equipment used Rotary  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5-5/8	4 1/2 OD 4 1/2 ID above Plastic ground 1 ft.	0	90	5/16 holes	20	90

Static Water Level for non-flowing well  
20 feet.Shut-in Pressure for Flowing Well NonePumping Water Level 50 feet  
at 5 gal. per minute.Discharge in gal. per min. of flowing well  
NoneHow Tested Bailing and AirLength of Test 1 hr

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

NW 1/4 Sec. 15 T. 16 R. 28  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

19

Driller's License Number

Driller's Signature

45715

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.

26245

W.W. # 303

STATE OF MONTANA,  
County of Petroleum, } ss.

Filed OCT 6 1969

at 1:40 P.M.

Doris Carroll  
Deputy

Fee: \$2.00

Deputy

File No. 302T. 16 R 28

DUPLICATE

RECEIVED

County HelenaNo. 4

LOG

OCT 8 1969

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD

Top of Ground

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

0 1 Topsoil  
1 45 Brown loose sand  
45 60 Varied sandy shale  
60 90 Bear Paw Shale  
Water 60-70

Notice of Completion of Groundwater  
Appropriation by Means of Well

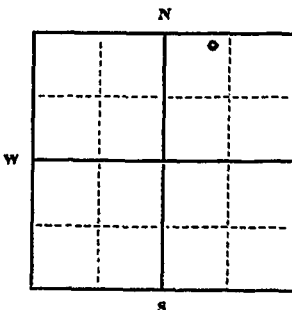
DEVELOPED AFTER JANUARY 1, 1962

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

Owner Gary Gerschnel Address Winnett, MontanaDriller George O. Singley Address Lewistown, MontanaDate of Notice of appropriation of groundwater NoneDate well started Sept. 9, 1969 Date completed Sept. 9, 1969Type of well Drilled Equipment used Rotary  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5-5/8	0	0	90			
	4 1/2 OD 4 1/2 ID above Plastic ex. 2'		90	5/16 holes	60	90

Static Water Level for non-flowing well 55 feet.Shut-in Pressure for Flowing Well NonePumping Water Level 80 feetat 7 gal. per minute.Discharge in gal. per min. of flowing well NoneHow Tested Bailing and AirLength of Test 1 hr.

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

NW 1/4 Sec 15 T 16 R 28  
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 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.

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

45716

26244

W. W. #3021

STATE OF MONTANA,  
County of Petroleum,

Filed OCT 6 1969

at 1:40 P. M.

*Doris Correll*  
Director of Records.

Fee: \$2.00

Deputy

NOTICE OF COMPLETION OF INVESTIGATION  
BY THE MONTANA DEPARTMENT OF REVENUE  
AND FINANCE  
IN CONNECTION WITH THE INVESTIGATION  
OF THE MONTANA DEPARTMENT OF REVENUE  
AND FINANCE  
IN CONNECTION WITH THE INVESTIGATION  
OF THE MONTANA DEPARTMENT OF REVENUE  
AND FINANCE

File No. 301T. 16 R. 28

DUPLICATE

MONTANA WATER RESOURCES BOARD

County PetroleumNo. 3

LOG

RECEIVED

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

STATE WATER CONSERVATION BOARD

Top of Ground

OCT 8 1969

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

# Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

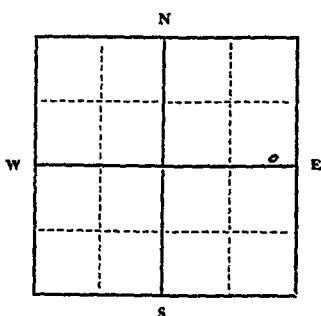
(Under Chapter 237 Montana Session Laws, 1961, as amended)

0 1 Topsoil  
1 40 Varied shale  
40 45 Black shale  
45 90 Light grey sandstone  
90 105 Water 70-90  
105 Bear Paw Shale

Owner Gary Gerschmel Address Winnett, MontanaDriller George O. Singley Address Lewistown, MontanaDate of Notice of appropriation of groundwater..... NoneDate well started Sept. 9, 1969 Date completed Sept. 9, 1969Type of well Drilled Equipment used Rotary  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5-5/8	4 1/2 OD 4 ID above Elastic gr. 1 1/2"	0	105			
		105	105	5/16 holes	65	105

Static Water Level for non-flowing well None feet.Shut-in Pressure for Flowing Well NonePumping Water Level 90 feetat 10 gal. per minute.

Discharge in gal. per min. of flowing well

NoneHow Tested Bailing and AirLength of Test 1 hr.

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

SE 1/4 DE Sec. 10 T. 16 R. 28  
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 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.

19

Driller's License Number

George Singley  
Driller's Signature.

45717



26243

b. b. #301

STATE OF MONTANA,  
County of Petroleum, ss.

Filed OCT 6 1969

at 1:25 P. M.

*Doris Carrell*  
Director of Records.

*Fee: \$2.00*

Deputy

NOTICE OF CONFIRMATION OF MARRIAGE  
The undersigned, Doris Carrell, Director of Records,  
do hereby certify that the following is a true and correct  
copy of the original record as the same appears in the  
files of the State of Montana.

STATE OF MONTANA  
DEPARTMENT OF REVENUE  
ADMINISTRATIVE SERVICES DIVISION  
BUREAU OF RECORDS

File No. 299T. 16 R. 28

ORIGINAL

County PetroleumMONTANA WATER RESOURCES BOARD  
LOG RECEIVEDSTATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD

Top of Ground

OCT 8 1969

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

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

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

0 27. Varied shale, brown, grey, blue, white

27 34. Grey sandstone

34 50. Dark grey shale

50 60. Sandstone, coal streaks

60 65. Dark brown shale

65 70. Sandstone

70 85. Shale

85 115. Hard sandy shale

115 117. Hard rock

117 135. Sandstone

135 156. Shale

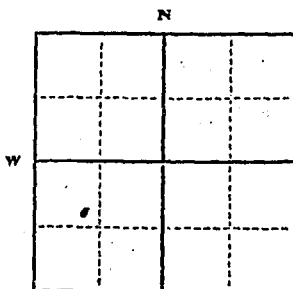
156 190. Sandstone, Water

190 200. Bear Paw Shale

Owner Gary Gershmel Address Winnett, MontanaDriller George O. Singloy Address Lewistown, MontanaDate of Notice of appropriation of groundwater NoneDate well started Aug. 8, 1969 Date completed Aug. 11, 1969Type of well Drilled Equipment used Rotary  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5-5/8	4" OD 4" ID	0	200			
	200# test gr. 1" PVC Flg.		200	5/16 holes	120	200
	5" steel above surface gr. 1"	5				

Static Water Level for non-flowing well 135 feet.Shut-in Pressure for Flowing Well NonePumping Water Level 190 feet at 5 gal. per minute.Discharge in gal. per min. of flowing well NoneHow Tested Bailing and PumpingLength of Test 1 hr.Remarks: (Gravel packing, cementing, packers, type of shutoff) Surface casing cemented in

U.S. Sec. 22 T. 16 R. 28

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 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 19Driller's Signature George O. Singloy

45719

#26241

Wb. 11

DATE

TIME

FILE

at 1:35

P

Doris Carroll

Le. 43.02

# GROUNDWATER INDEX

Page of

County Potomac Twp. 16N Rge. 29E

[illegible]

File No. 237

DUPLICATE

T. 16 N 29 E.County Petroleum

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)

Chas. H. Gilfeather Estate  
Jacqueline M. Gilfeather,  
Administratrix

of Masby, Montana

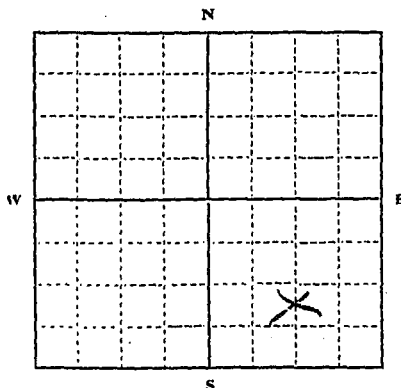
(Name of Appropriator)

(Address)

(Town)

County of PetroleumState of Montana

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

SE  $\frac{1}{4}$  Sec. 2 T. 16 R. 29

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 from spring

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

1920 - Used for stock water every grazing year

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

1 1/2 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

Gravity flow through pipes to reservoir

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

About 1920 - Shanks, turn & Fresno, and dozer work from time to time

8. The depth of water table

Estimate 1.5 feet

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

earthen dam to hold water from spring, 2 in. pipe of plastic

10. The estimated amount of groundwater withdrawn each year

900,000 less evaporation

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

not drilled

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

Chas. H. Gilfeather Estate  
Jacqueline M. Gilfeather,  
Administratrix

Signature of Owner

Date Dec. 29, 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.

20902

22395

STATE OF MONTANA.

County of Petroleum.

Filed DEC 31 1963

at 11:00 o'clock A. M.

*Bonny L. Dugan*  
Director of Records.

*W. A. Dugan* Deputy

GW3

File No. 243

DUPLICATE

T. 16 N. R. 29 E.

County Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 3 1964

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

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1932

Owner Clara E Bump Address Box 202 Winnemount

Contractor (if any) none

Address of Contractor none

Date Started June 1932 Date Completed same year

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

about six feet for house & stock water  
the year around. Lower spring cleaned  
lined to hold water for stock  
all the year around

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

Around 2 to 5 inches

work done by Ernest & Guya  
Bump

Signature of Owner Clara Bump

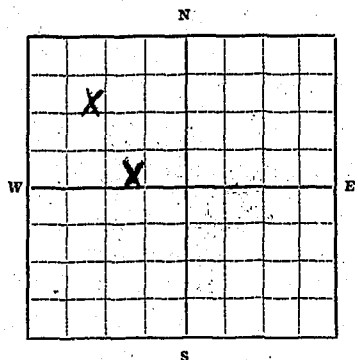
Date Dec 1963

This form to be prepared by contractor (if any), ...wise 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.



1/4 Sec. 3 T. 16 N. R. 29 E.  
Indicate point of appropriation and place of use, if possible.

20908

22402

STATE OF MONTANA,  
County of Petroleum, }

Filed DEC 31 1963 19

at 1:15 o'clock P.M.

Donny L. Single  
Director of Elections.

Joe J. Co Deputy



File No. 241T 16 N R 29 ECounty Petroleum

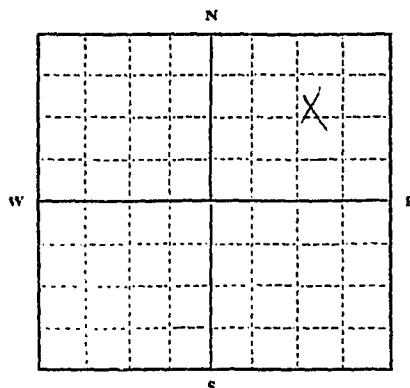
DUPLICATE

*Difficult to find near house*STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEERRECEIVED  
JAN 3 1963

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Chas. H. Gilfeather Estate  
Jacqueline M. Gilfeather administrator Mosby, Montana  
 (Name of Appropriator) (Address) (Town)  
 County of Petroleum State of Montana  
 have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

NE  $\frac{1}{4}$  Sec. 8 T. 16 R. 29

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: Sandpiper well  
stockwater and 1 acre garden irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been: about 1949  
water always available since well drilled
4. The amount of groundwater claimed (in miner's inches or gallons per minute): about 1.0 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: 1 acre garden
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: gasoline engine powered pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: about 1940
8. The depth of water table: Estimate 20 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: 2 inch pipe, gasoline engine to power pump
10. The estimated amount of groundwater withdrawn each year: possible about 1.0 gal. per day all year
11. The log of formations encountered in the drilling of each well if available: not drilled
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

Chas. H. Gilfeather Estate  
Jacqueline M. Gilfeather administratorDate Dec. 29, 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.

20906

22399

STATE OF MONTANA,  
County of Petroleum.

DEC 31 1963

at 11:30 o'clock A.M.

Looney P. Sengul  
Director of Records.

Jul 2.00 Deputy

File No. 240T. 16 N R. 29 E

DUPLICATE

County Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

## Declaration of Vested Groundwater Rights

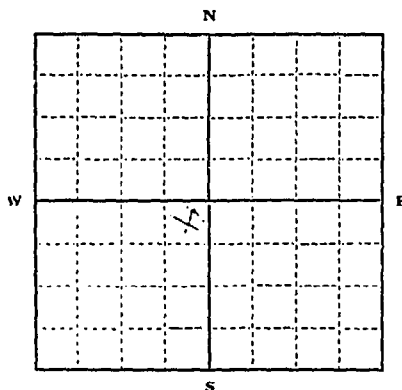
Under Chapter 237, Montana Session Laws, 1961

STATE ENGINEER

Chas. H. Gilfeather Estate  
Jacqueline M. Gilfeather  
administratrix

of Marby, Montana  
(Address) (Town)

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



NE 1/4 Sec. 8 T. 16 R. 29

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 Land point well:  
stockwater & 1/2 garden irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1915 -  
continuous use

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater about 1915

8. The depth of water table Estimate 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 2 inch pipe, about 15 ft. deep  
and 1/2 horsepower electric motor

10. The estimated amount of groundwater withdrawn each year 1,000 gal. per day all year

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

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

Chas. H. Gilfeather Estate  
Jacqueline M. Gilfeather  
administratrix

Date Dec. 29, 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.

20905

22398

STATE OF MONTANA, }

County of Petroleum, }

Filed DEC 31 1963

at 11:15 o'clock A.M.

*Benny L. Dargatz*  
Deputy in Records

*Gu: 2.00*

Deputy

File No. 238

DUPLICATE

*Kahrl place*

T. 16 N. 29 E.

County Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

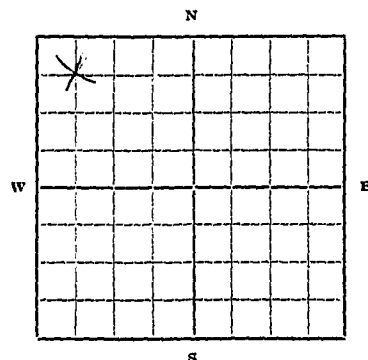
RECEIVED  
JAN 3 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Chas. H. Gilfeather Estate  
Jacqueline M. Gilfeather, administrator of Mosby, Montana  
(Name of Appropriator) (Address) (Town)  
County of Petroleum State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 9 T. 16 R. 29

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 from spring
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1945 - Shyula, Trans. & Fresno work followed by dog & dogline - used for stock water every grazing year
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1 1/2 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 Gravity & pipe to reservoir & tank
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Bought land 1945
8. The depth of water table Estimate 11 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 2 inch pipe buried about 2 ft from 12 ft. deep spring, down couler
10. The estimated amount of groundwater withdrawn each year 900,000 less evaporation
11. The log of formations encountered in the drilling of each well if available: Not drilled -
12. Such other information of a similar nature as may be useful in carrying out the policy of the act, including reference to book and page of any county record.

Signature of Owner Jacqueline M. Gilfeather  
Chas. H. Gilfeather Estate

Date Dec. 29, 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.

20903

22396

#238

STATE OF MONTANA,  
County of Petroleum,

Filed DEC 31 1963

at 11:05 o'clock A. M.

Donny L. Dingle  
Director of Records

W. S. D.

Deputy

State Engineer

## GROUNDWATER INDEX

Page        of       

County Pottawatomie Twp. 16N Rge. 30E

[illegible]

File No. 239

DUPLICATE

T. 16 R. 30 E. 7  
County PetroleumSTATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEERRECEIVED  
JAN 3 1963

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

*(Tussock place)*  
Chas. H. Delfeather Estate

Jacqueline M. Delfeather, administrator of

Mosby, Montana

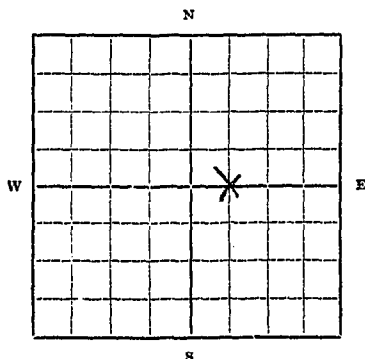
(Name of Appropriator)

(Address)

(Town)

County of PetroleumState of Montana

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

NE 1/4 SE 1/4  
1/4 Sec. 7 T. 16 R. 30Indicate 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 Land point well - stockwater, 5 A. garden irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1930 - continuous use.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 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 5 A. garden
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal hand pump, then gasoline pump, now electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater about 1930
8. The depth of water table Estimate 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 2 inch pipe, well about 15 feet deep, 5 horsepower electric motor
10. The estimated amount of groundwater withdrawn each year 1000 gal. per day all year
11. The log of formations encountered in the drilling of each well if available not drilled
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.

Chas. H. Delfeather Estate  
Jacqueline M. Delfeather  
administrator  
Signature of OwnerDate Dec. 29, 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.

20904



22397

STATE OF MONTANA,  
County of Petroleum, }

Filed DEC 31 1963

at 11:10 o'clock A. M.

Benny L. Stuyt  
Director of Records

Fre. L. E. Deputy

## GROUNDWATER INDEX

Page \_\_\_\_ of \_\_\_\_

County Petrolean Twp. 15N Rge. 25E

[illegible]

File No. ....

DUPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

County Petroleum

STATE ENGINEER

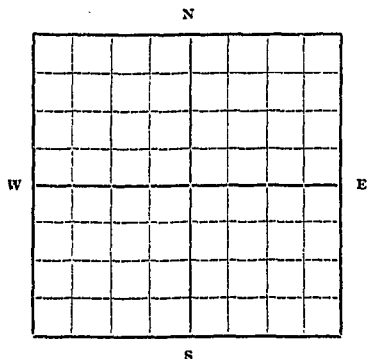
**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

Andrew E. Johnson, Anna Johnson and Helen A. Heaton

1. (Name of Appropriator) of Winnett, Montana,  
(Address) (Town)

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



$\frac{1}{4}$  Sec. T. R.

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

2. The beneficial use on which the claim is based ad  
well drilled

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 35 gallons per minute, livestock  
and domestic purposes, and irrigation.

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 in Sec. 1, Twp. 15 N. Range 25 E.,  
in SE 1/4 of said Sec. 1, an area of about  
five acres running SW from center of forty  
where well is located

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
it is a flowing well at present, if it  
does not continue will use pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater began drilling in Nov. 1950, and completed it on  
or about Dec. 14, 1950 (1950).

8. The depth of water table Set a Larkin Packer at 1289 feet and have 50 feet  
of slot perforations below the packer

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 Depth of well is 1336 at bottom

10. The estimated amount of groundwater withdrawn each year runs about 30 Gallons per  
minute now.

11. The log of formations encountered in the drilling of each well if available various colored shale to  
about 914 ft., with streaks hard fine sand, bentonite at 940',  
hard sand, streaks of shale at 1,000', various sand, shale, sand and  
lime to about 1125', about the same to 1250, sticky shale, red,  
hard shale, etc. 1280', hard brown lime at 1285, 1315 soft shale and  
pepper sand, 1336 soft salt and pepper sand, getting draker

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  
County Records will no doubt show on this instrument

Signature of Owner Andrew E. Johnson  
Agent for owners (co-owner)

Date March 12, 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.

1707

20093

#147  
V.D.

STATE OF MONTANA,  
County of Petroleum.

Filed March 12 1962

at 1:30 o'clock P.M.

Velma R. Merten

County Recorder.

Velma R. Merten

Deputy.

Fee \$ 00  
1 -