File No. 16861

T.21 R.186

DUPLICATE

County Fergus

#### STATE OF MONTANA

### ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

DEC 23 1963

**Declaration of Vested Groundwater Rights** 

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

have appropriated groundwater acc	of Winifeld Mont. (Address) (Town)
have appropriated groundwater acc	State of Mont.
	ording to the Montana laws in effect prior to January 1, 1962, as follows
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	2. The beneficial use on which the claim is based.
	from works and from works
	3. Date or approximate date of earliest beneficial use; and how co
	tinuous the use has been OT 1953
	and continuous since.
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	4 (77)
	4. The amount of groundwater claimed (in miner's inches or gallon
	per minute). 3 g. A. A. min.
	5. If used for irrigation, give the acreage and description of the land
8	to which water has been applied and name of the owner there
eat	not used for insigation.
384. Sec. 11 T.21. R.18.E.	
icate point of appropriation	
l place of use, if possible. ch small square represents 10	6. The means of withdrawing such water from the ground and t
es.	location of each well or other means of withdraws
	By Eleitai woter Tump
works for the withdrawal of group	type, size and depth of each well or the general specifications of any off
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With 5 will Chang	
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The estimated amount of groundward the log of formations encountered awards of a similar reference to book and page of any	in the drilling of each well if available.  nature as may be useful in carrying out the policy of this act, including county record.
The estimated amount of groundward the log of formations encountered awards of a similar reference to book and page of any	in the drilling of each well if available
The estimated amount of groundward the log of formations encountered awards of a similar reference to book and page of any	in the drilling of each well if available

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; dudicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

COPY

State of Montana, County of Forgus. ss.

File No. 8945

DUPLICATE

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

#### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Edgar Schaeffer	, of	Winifred
(Name of Appropriator)	· · · · · · · · · · · · · · · · · · ·	(Town)
have appropriated groundwater acc	State of Montana ording to the Montana laws in effect p	prior to January 1 1962 as fo
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	2 COCK Marker.	
	3. Date or approximate date of earlie	est beneficial use; and how co
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	4. The amount of groundwater claim	ed (in miner's inches or gallo
	per minute) 3 gallons per m	irute.
5	5. If used for irrigation, give the a lands to which water has been a	acreage and description of the
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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.

1738

County of Fergus. St.

Filed MAR 15 1962

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County Clerk and Recorder

#200 pt.

File No.	•	MONTANA WATER RESOURCES EDITO	1 2 NR 18E
DUPLIC	CATE LOG	VED	STATE OF MONTANA STRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER
ì	Top of Ground		
0	(Ele above sea level		Completion of Groundwater
80	Bentontic Sand		oriation by Means of Well SLOPED AFTER JANUARY 1, 1962
	Tatermitten	I CORG.	hapter 237, Montana Session Laws, 1961)
_	Water)	TEOMOS DA	
180	Bentonit ics	Own E TOM	ompson Address Win 1 Gred, 14
-	Speen Clay 20	yers Driller M. LIV. Som	Dry Co. Address G 1255 Range The
	Thin Black Co		opriation of groundwaten applicable
2 4	Leuses	a Company Russia ANG	24-68 Date completed 5457.4-68
	Hard Limey	Type of well WPIL	Led Equipment used Rotary
256	Lite Colored	(Dug, Driven, bored or	drilled) (Churn drill, rotary or other)
	Saud Storre -V	Indust.	V //
	Sine-Poor Por	Indicate on the dia	grain the character and thickness of the different stra
321	DAVE MIGUIN	met with in drilling, so depth at which water i	sich as soil, clay, shale, gravel, rock or sand, etc. Sho s encountered, thickness and character of water-bearing
1	5 habe - Some	The second secon	hich the water rises in the well.
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<b>34</b>	Hard Lime 6	145 4 1234	Size (Feet) (Feet)
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-	can sas of ba	*   ×	Pumping Water Levelfo
	Tray Sand in	w	gal. per minute.
- ;	Brown Clays	5/125	Discharge in gal, per min, of flowing w
			How Tested DUM D. i. n. q.
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		place of use, if possible	vell and Castary Comments 40
		small square representations.	ents 40
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_		cave Type pac	
		number of acres	igation, industrial, drainage or other. Explain, stand location or other data (i.e.: Lot, Block and Ad
		tien).	
-			
460	Show exact depth of bot	kom.	
			2 /
		d three copies to be filed by the owner ty in which the well is located, tissue o	
	by driller.	A THE ATTICES MICH LAST TO TOCHNOON PRODUCE C	am m
retained	by driller. nswer all questions. If not a	pplicable, so "tate, otherwise the form	am m.

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File No....... 4.7.226....

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DUPLICATE

#### STATE OF MONTANA

#### ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Sassian Laws STATE Free Property Control of Control

n.a	t J. He	and ggem / Bet	<b>ty</b> (	C. Hoggen	Box 314	Winifred
	(Name o	f Appropriator)		W.W., 01	(Address) of <b>Montans</b>	(Town)
County of	f	rergus	nding	State	of Monte in affect prior	to January 1, 1962, as follows
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T : :	<u>, , , , , , , , , , , , , , , , , , , </u>		2.	The beneficial n	se on which the clain	n is based
		*				for livestock water
			0	Data	:	
			Ω,			t beneficial use; and how con
				October.	1954.	
	(2)	E		***************************************		
			4.	The amount of	groundwater claimed	l (in miner's inches or gallons
			••			1.e
			5	If need for insid	ration give the secon	ge and description of the lands
<u> </u>	<u></u>		ð.	to which water	has been applied as	ad name of the owner thereo
.a = 4				used to in	rigate lawn ar	id gardens and flower
	c. 27. T.2	L. R. 18.				
licate poin	t of appr	opriation		*********	***************************************	
d place of sch small sc	i use, ii quare repre	possible.	6.	The means of	withdrawing such wa	ater from the ground and the
res.	•					s of withdrawal
drawal of		October	1.954		***************************************	ne first week
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. So far as works for	it may be	available, the t	water		***************************************	eral specifications of any othe
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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.

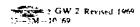
COPY

State of Montana, County of Fergus. ss.

Filed JAN 2 1054

at 6.30 o'clock A.M.

County Clerk and Recorder



#### STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE MONTANA WATER RESOURCES BOARD

#### NOTICE OF COMPLETION OF GROUNDWATER AFPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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			-	
Clinder Chanter	727 Montena	Session I man	1061 -	

(Ouget cushiet Y2) Mottalia Sezi	On Laws, 1901	, as amend	sea)	Top of	Ground	(Elev. above sea level)	
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Please answer all questions, if not a	so the	165	183	Sundstone			
form may be returned.	,	,			193	Sundy shale	
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and Addition)	*****						ĺ
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Borres Harris	LICENSE	NO 10	Q	400	<u>.</u>	Show exact depth of bottom	
	112 (****	CHILL	_			-	

DRILLER'S LOG

Indicate the character, color, thick-

ness 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.

4587J

COPY

Filed MAR 10 1972

The County of Fergus. Iss.

Filed MAR 10 1972

The County Clerk and Record of State County Clerk and State

Driller's Signature

19
Driller's License Number

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.

small square represents 10 acres.

Show exact depth of bottom.

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

State of Montana. Ses. COP Secretary of Fergus. 1953

Filed 1953

Filed M. MAY RATHRIIN
County Clerk and Recorder

Form No. 18 8-60

т.	21 N	R.	18E	7
County	C. que			

MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana

		•				
		WATER W	ELL LOG			Ä
	Owner Wast	3chacffer		Address	nifred. 19	entana_
	Driller Gear	ge 0. Bing	i oy	Address 🛂	wistown,	ion tene
	Date Started	HOVEDO	r 24, 1961	Date Comp	leted Mov.	28,196
K	Location: S	Sec. <u>29</u>	T. 2/N. R.	185 4	sec. <u>J W 7</u>	SE
Type of well	(Dug, driven, bored,	or drilled)	Equipment us	ed Cable ?	Cool drill, retary,	other)
	Domestic				•	]
	Industrial 🔲	Drainage	0ther			
Casing:	9 ft. to 100	ft.	Туре 3 % 3	Si	ze <b>10*</b>	A
Casing:	2 ft. to 160	ft.	Type S & S	Si	ze <b>5*</b>	
Casing:	ft. to	ft.	Type	Si:	ze	
	or Screened: Ft.					-
	en or perforatio					
	level, for non-			<b>31</b>		feet.
	sure, for flowin					
	r level 130	feet a	1t	gal, p	er min	
How tested:	Dailing			والمعادر والمعادة المراد والمعادر والمعادر والمعادر		
Length of te	st 2 mr.		······································			
·	ravel packing, c shut-off)	<del>-</del> -	, ,		•	
Acta di	rilled August 194	3. prille	ar nakboan.	<b>Cleaned</b> out	r and rapa	ina.
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**************************************		(0)	/er)			

Depth	, feet	
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100	160	Judith river endatones eter
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GW .

File No. 17525

DUPLICATE

Approved Stock Form—State Publishing Co., Helena,, Montana-42234 | @

T 2 / NR / 812

County # ergers

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

D JAN 3 196.

Dodawsion	of Vested Groundwater Bights
Under C	of Vested Groundwater Rights A7 E Line 237, Montana Session Laws, 1961)
Ornel Bolsto	ad or Winified
(Name of Appropriator	$(Address) \qquad (Town)$
County of A Laguer	ling to the Montana laws in effect prior to January 1, 1962, as follows:
	the months in the prior to outday 1, 1009, as 102000.
, n	2. The beneficial use on which the claim is based.
	2. The beneficial use on which the claim is based used for
	3. Date or approximate date of earliest beneficial use; and how continuous the use has been 6-1950
00	used constanty
F	
	4. The amount of groundwater claimed (in miner's inches or gallons
	per minuse) 2 wells - 10 gal pu min lace
	5. If used for irrigation, give the acreage and description of the lands
S	to which water has been applied and name of the owner thereof
14 Sec 30 T. 2/ R. /8	not used for irrigation
dirate point of appropriation	
d place of use, if possible. Each all square represents 10 acres.	6. The means of withdrawing such water from the ground and the loca-
ian square represents 10 acres.	tion of each well or other means of withdrawal
	shallow well electric gumag
	impletion of the construction of the well, wells, or other works for with-
drawal of groundwater	<u> 1, -15 1950</u>
	2 01
. The depth of water table	0 47
	type, size and depth of each well or the general specifications of any other
works for the withdrawal of grounds	rater 1 2 1 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2
juna a	ung wells - 6 ft dum - Depth 20 ft
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. The estimated amount of groundwat	ter withdrawn each year 100,000 gal. lack sul
. The log of formations encountered in	
_	
water sea	ung sand a gravel at 20 ft.
	nature as may be useful in carrying out the policy of this act, including
reference to book and page of any c	ounty record
	- 1 - 1 - 1
	Signature of Owner Quel Balstal
	non Dec 23 1963
	Signature of Owner Owel Balstaf

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.

COP. State of Montana, County of Fergus. Filed DEC 3 1 1963

Filed DEC 3 1 1963

Filed O'clock M.

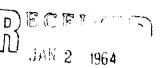
MAY RATHBUN

County Clerk and Recorder

17272 File No.

DUPLICATE

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



Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1 CARLST	TROM OF WINIFRED
(Name of Appropriator	(Address) (Town)  State of HON + HH.  ding to the Montana laws in effect prior to January 1, 1962, as follows:
County of FERGUS	State of MONT. ANA.
have appropriated groundwater accor	ding to the Montana laws in effect prior to January 1, 1962, as follows:
N	
	2. The beneficial use on which the claim is based House
	AND Stock Water
	P. P. d. C. Control of the Control o
	3. Date or approximate date of earliest beneficial use; and how continu-
	ous the use has been 1913
VE	
	4. The amount of groundwater claimed (in miner's inches or gallons
	4. The amount of groundwater claimed (in infiners inches or gamons
· rell	per minute) $397k$
Hease -	***************************************
//	5. If used for irrigation, give the acreage and description of the lands
\$	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
1/2 5//2	None used
1/2 51/2 Sec.35 T.2/ R. /8	
indicate point of appropriation	
and place of use, if possible. Each	6. The means of withdrawing such water from the ground and the loca-
small square represents 10 acres.	
	tion of each well or other means of withdrawal 5h3 110 W
	1913 105talled 1956 30ff
	•
<ol><li>So far as it may be available, the works for the withdrawal of ground</li></ol>	type, size and depth of each well or the general specifications of any other water Dug under the general specifications of any other
6 12 5.3	32ft Deep.
	JAGT Ut GF.
10. The estimated amount of groundwa	ter withdrawn each year 300,000
	·
11. The log of formations encountered i	in the drilling of each well if available  V 3 レス, / シケ/ヒ
	M. Y. V. G.I. I. Y. M. I. Co.
<ol> <li>Such other information of a similar reference to book and page of any of</li> </ol>	r nature as may be useful in carrying out the policy of this act, including county record
••••••	
•••••	. 1
	Signature of Owner & Gastolans  Date Dec. 30 1963.
	n. () - 20 19/2
	Date have the second of the se

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. 17202

COPY

State of Mandans, Country of Fargus, St.

Filed DEC 30 1963

at 12: 30 o'clock M.

Low Roth Country Clerk and Recurder

Approved Stocs I arm--State Publishing Co., Helena, Montana -- 42234 GW 17840 T. 21 N. R. 18 E.... File No. County FErgas DUPLICATE STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER Declaration of Vested Groundwater Rights TE ENGINEER (Name of Appropriator)

(Name of Appropriator)

(Address)

(Town)

(Town)

(Town)

(Town)

(Town)

(Town)

(Town)

(Town) of VIDII Fred
(Address) County of .. out Sot M of Winifred 2. The beneficial use on which the claim is based forces. T 3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1913. De Pacella V

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

The amount					
per minute).	Alexan	Y	Janl	Renda	
	71				<u>/</u>
			U		

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 Flexible Person

7.	The date of commencement	and completion	of the constru	ction of the wel	ll, wells, or othe	r works for with-
	The date of commencement drawal of groundwater	9.13 du	eq well	By 19 31al	Hamis Is	tal of
	Jahren	***************************************				

10. The estimated amount of groundwater withdrawn each year 200 110 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 Fred & Grow

Date 12-51-63

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.

17840 COpy

State of Montana, County of Fergus. St.

Filed JAK 2 1984

Filed JAK 2 1984

Way Ola The County Clerk and Recorder

200 pt.

17526 File No.

DUPLICATE

County.....

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

Declaration of Vested Groundwater Rights
(Under Chapter 297, Montana Session Laws, 1961)

1		of	
(Name of	f Appropriator)	(Address)	(Town)
have appropriated gr	roundwater according	to the Montana laws in effect prior t	o January 1, 1962, as follows
N .	2.	The beneficial use on which the claim	
	3.	Date or approximate date of earliest tinuous the use has been	beneficial use; and how con
		The amount of groundwater claimed per minute)	(in miner's inches or gallon
8	5.	If used for irrigation, give the acreage to which water has been applied and	I name of the owner thereo
14 Sec.26 T	R		
ndicate point of appro- nd place of use, if Each small square repre- eres.	possible.	The means of withdrawing such wat location of each well or other means	ter from the ground and the
drawal of groundwat	ter	on of the construction of the well, we	
		size and depth of each well or the gener	
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0. The estimated amour	nt of groundwater w	ithdrawn each year	······································
1. The log of formation	as encountered in the	e drilling of each well if available	
			The same of the sa
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reference to book and	d page of any county	e as may be useful in carrying out the	
APP			
		Signature of Owner.	, <u>*</u>
		. Programme de la companya de la co	, , , , , , , , , , , , , , , , , , , ,

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.

COPY

State of Montana, County of Fergus. ss. Filed DEC 3 1 1963

Filed at 11'00

MAY RATHETTAT
County Clerk and Recorder

GROUNDWATER INDEX

Page / of /

County Fergus Twp. 2/7 Rge. 19E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
2	Liver, Bil. Burside, Forrest J.	8 N2	18655	
27	Burside Forresty.	12 m4	16791	
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GW 2			Approv	ed Stock Form-	-State Publishi	ing Co., Helens,	Montana-39	318
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			A YNDETNYY	STATE STRATOR	OF MON	TANA		
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-	(Elev. above sea level	,	Notice of					
- 0	1 Topsoil	•••••	Approp			<b>V</b> I N	1 E L MI	GINEER
38	38 Sandy shale 59 Sandstone Water			apter 237,				
			Dah di man	[		364 m 4 #2	and Ma	ann a <b>d</b> a atti tann an
		Owner.	Beb Simme			s Vinify		
		Driller.	George O.	SINGLEY	Addres	POATEL	iown , R	on com
		Date of	Notice of Appre	opriation of	Groundwa	iter	ne	
-		Date w	ell started Mare	h 7,196	Date C	ompleted	erch l	2,1964
-		Type of	well Drille	d	Equip	ment Used	Retary	
-		(dug. drille	driven, bored or			n, drill, rotur		
			Use: Domestic	m Mr.	nicipal [	•		
		Water	Industrial		ainage	Stock		rrigation [
		In	dicate on the d	liagram the	character	and thick	ness of th	ne different
		strata :	net with in drill	ling, such a	s soil, clay	, shale, gra	vel, rock c	or sand, etc.
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 		5 5/8*	· 6.7#galv	above	59 59		38	59
-  -  -  -		5 5/8*	4gid 4ggs 6.7#galv	above - 5.1				
 - - -		5 5/8*	46ID 4640 6.7#621v	above				
   	N	energy and the second			59	Slote	38	59
    	N	St.	atic Water Level	for non-flo	59 wing Well	31ote 3**	38	59
    	N	St.	atic Water Level	for non-flo	wing Well	Slote 3°	38	59
-	N	St.	atic Water Level	for non-flo	wing Well	Slote 3°	38	59
-	N	St. Sh	atic Water Level	for non-flo	wing Well Wellfee	30 Nene	38	59
-	W Y	St. Sh. Pu	atic Water Level aut-in Pressure in amping Water Leacharge in gal. p	for non-flo for Flowing evel 45	wing Well Wellfee	30 Nene	38 gal.	59 feet.
		St. Sh. Pu	atic Water Level aut-in Pressure in amping Water Le scharge in gal. p	for non-flo for Flowing evel 45 per min. of	wing Well Wellfee	Slote 30 None et at 5 etl No	ys gal.	59 feet.
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	NE 1/2 Sec. 2. T. 2/ R.	St. Sh. Pu Di Ho	atic Water Level aut-in Pressure is amping Water Level scharge in gal. p  w Tested	for non-flowing evel	wing Well Well	30 Nene et at 5 etl. Ne th of Test. packers, todwater if ormation, i	gal.  2 hr  ype of sh not at we neluding	feet.  per minute.  setutoff, locatell, and any
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	NE 1/2 Sec. A. T. 2/ R. Indicate location of well place of use, if possible. Esmall square represents 10 ac	St. Sh. Pu Di Ho Re	atic Water Level aut-in Pressure is amping Water Level scharge in gal. p  w Tested	for non-flo for Flowing ever 45 per min. of packing, of place of we imilar per-	wing Well Well	Slote 30  None et at 5 ell No th of Test packers, t ndwater if ormation, i rigation)	gal.  2 hr  ype of sh not at we neluding	feet.  per minute.  se  utoff, loca- ill, and any number of
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This form to be prepared by driller, and three copies to be filed by the cwner 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.

35497

COPY

State of Munitano, County of Fergus. ss.

Filed MAR 1 8 1964

at L: 25 o'clock f. M.

County Clerk and Recorder

Approved Stock Form-State Publishing Co., Helena, Montana-38687 File No. 16791 DUPLICATE STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER Declaration of Vested Groundwater Rights

937 Montana Session Laws, 1961)

141E ENGINEER (Address) Montana County of Thomas .State of ..... have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows: NhE 14577 July 2. The beneficial use on which the claim is based stord! 3. Date or approximate date of earliest beneficial use; and how continuous the use has been about 1922 he just have sullabout 19 14 to just there 4. The amount of groundwater claimed (in miner's inches or gallons 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof not of shaple 5 E. 14 Sec. 2.7. T.21.. R.19. Indicate point of appropriation and place of use, if possible. Each small square represents 10 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal..... fringer 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. It was 1914 the supply what 25 ft. 8. The depth of water table 2 ft well 4 to 6 ft spungs 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. If the works for the withdrawal of groundwater. is shout a fit in diameter 10. The estimated amount of groundwater withdrawn each year well whom 3 k. 200. April 200.00 11. The log of formations encountered in the drilling of each well if available...... does not apply as not available 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record..... Signature of Owner J. J. Presently

Date Lon 13 1963

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

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

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

COPI

State of Montana, ( \*\* 42 of Fargus.) ss.

Filed. DEC. 13.1963 19

W. 2.25 o'clock M.

County/Clerk and Recenter

F 2.54.

GROUNDWATER INDEX	•••	Page _/_of/
County Jugus	Twp. <u>2/90</u> Rge.	20E.

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
18	Whitnere Russell	The ter While Long	7963	
22	The st, E. E.	272	21646	
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Form No. 18 8-60

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T. <u>-/</u>	<u> </u>	R	20/	
County	Len	4-1-1		

# MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana

#### WATER WELL LOG

WATER WELL LOG	Fir in ENGINEER
Owner Lussell thitmore	Address sinifred . Anntena
Driller George to Singley	Address
Date Started Dec. 1. 1961	Date Completed . 1951
Location: Sec. 18 T. 21 R.	20 1 sec. 5 w/4 - 5 w/4
Type of well Orilled Equipment use (Dug, driven, bored, or drilled)	(Ghum, drill, retary, sther)
Water use: Domestic Municipal Stock	
Industrial Drainage Other Casing: 2 ft. to 113 ft. Type 5 & s	
Casing:ft. toft. Type	
Casing:ft. toft. Type	Size
Perforated or Screened: Ft. 85 to ft. 108.	Ftto ft
Type of screen or perforations lots	
Static Water level, for non-flowing well: 15	
Shut-in pressure; for flowing well:lb.	/sq. in. on:
Pumping water level	gal. per min
How tested: Dailing 7/49/	
Length of testlnr.	
Remarks: (Gravel packing, cementing, packers, type shut-off)	e of shut-off, depth of
Cave obtainer packer set bown perforations	
(over)	

Depth,	feet	
From	То	Description of Material Drilled
0	30	Vallow olay
<b>30</b>	40	Gray rook
40	90	Layers of rook and shale
90	100	sandstone satur 2 gal. sin.
100	113	*hits rock
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File No. 316+5

DUPLICATE

791 N R 20E 22

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE

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18/10	SCHOOL WAS H		A	-	_	<b>U</b> 1	hadwale !!	LEK
61,00	51LTY Sand + Carbons	TIONS STRISS	Appropr	-				
365	1	ha L 2	(Under Cha	pter 237.	Montana S	ession La	ws, 1961)	
366	Benetic Sand	Owner	E. Ward	!	Addres	win	pel Pront	
279	Benefic Jain					^		<u> </u>
284	Hard Sand-Iron 127.	Pi ¥ > Drilleri	B. am. mu	hion	Addres		a brange, I trans	وليا دول
1930	SILTYSAND Benetic SILT,	Date of N	lotice of Approp	riation of	f Groundwa	h-not	opplicable)	<del>!</del> 
324	Benetic Sand	Date well	started.	9-19	64 Date C	ompleted.	Oct. 16-19	64
33,	Benefic Jang		$\mathbf{a} \cdot \mathbf{a} \cdot \mathbf{c}$				Onto	
333	Hard Cap Rock	'ype of v \ (dug, dr	iven, bored or			nent Used 1, drill, rots		
352	San (Gair porosit	drilled)			other		• 0	
10	water	Water U	se: Domestic 7		anicipal 🔲	Other	☐ Irrigation	n 🔲
361	Benetic SILT Carl-onations STAR	. <del></del>	Industrial [	] D <sub>1</sub>	rainage 🗌	Stock	×	
	Carl-onatious sirk	Ca Indi					kness of the diffe	
							avel, rock or sand, nd character of wa	
		_	trata and heigh					ner-
								-
		Sire of Drilled	Size and Weight of	From (Feet)	(Feet)		PERFORATIONS	
		53/6	8.9#ULUD	0	342	Kind Size	From To (Feet)	D)
		3 /4	"1 72			Reg.	334 342	
-							Balence	
							Open the	7
-							TO TO D.	eq.
<b> -</b>				analogin shi sanii akal ayo yo il shika a			100.	
-	n	54.44	: 337-4 11 /	· 61	337-1/	די ו	5	·
-		ા અ	ic Water Level f	or non-in	owing well.	,X,.¢.	I	fe <b>et.</b>
		A Jallehu	t-in Pressure for					
_	X 04	A Jallehu					gal. per min	
	X. O4	A Ja Oshu Pur	ping Water Lev	el. a.	54fed	t at 23		ute.
-	<b>X</b> 04	A Ja Oshu Pum Disc	iping Water Lev	el. a.	flowing we	t at 2 3		ute.
-	<b>X</b> O4	A Ja Oshu Pum Disc	iping Water Lev	el. a.	flowing we	t at 2 3		ute.
-	<b>X</b> : 04	Pum Disc  R	nping Water Levenharge in gal. pe	el. 2 . r min. of	flowing we	t at 23	continous	•••••
-	<b>X</b>	Pum Disc  R	harge in gal. pe Tested Care arks: (Gravel tion of p	r min. of  packing, lace of u	flowing we Leng cementing.	t at 23 th of Tes packers, dwater if	Continous  type of shutoff, le not at well, and	oca- any
-	<b>X</b>	Pum Disc  R	harge in gal. pe Tested Care arks: (Gravel tion of p	r min. of  packing, lace of u	flowing we Leng cementing.	t at 23 th of Tes packers, dwater if	Continous type of shutoff, 1	oca- any
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	Nu. 1/12 Sec. T. T. A. Indicate location of we place of use, if possible	Pum Disc Rem Rem Rem Rem	harge in gal. pe Tested Curt  arks: (Gravel tion of pother six	r min. of  packing, lace of unilar per	flowing we flowing.  Leng cementing.  Ise of groundinent information informati	th of Tes  packers, idwater if ormation, rigation)	Continous  type of shutoff, le  not at well, and including number	oca- any of
	NW. 1/ No Sec 22 TIAN Indicate location of we	Pum Disc Rem Rem Rem Rem	harge in gal. pe Tested Curt  arks: (Gravel tion of pother six	r min. of packing, lace of unilar per gated, if	flowing we flowing.  Leng cementing.  Ise of groundinent information informati	th of Tes  packers, idwater if ormation, rigation)	Contingues  type of shutoff, le not at well, and including number	oca- any of
	Nu. 1/12 Sec. T. T. A. Indicate location of we place of use, if possible	Pum Disc  Rem Rem Rem Rach acres.	harge in gal. pe Tested Pur  arks: (Gravel tion of p other six acres irri Cave Lo	r min. of packing, lace of unilar per gated, if	flowing we flowing we cementing. use of grounding timent information with the second control of the second con	th of Tes  packers, idwater if ormation, rigation)	Contingues  type of shutoff, le not at well, and including number	oca- any of
2/	Indicate location of we place of use, if possible small square represents 10.  Show exact depth of bottom	Pum Disc  Rem Rem Rem Rach acres.	harge in gal. pe Tested Pur  arks: (Gravel tion of p other six acres irri Cave Lo	r min. of packing, lace of unilar per gated, if	flowing we flowing we cementing. use of grountinent info	th of Tes  packers, idwater if ormation, rigation)	Continous  type of shutoff, le not at well, and including number  O. 200  (o. 20 and	oca- any of
36	Indicate location of we place of use, if possible small square represents 10.  Show exact depth of bottom	Pum Disc  Rem Rem Rem Rach acres.	harge in gal. pe Tested Pur  arks: (Gravel tion of p other six acres irri Cave Lo	r min. of packing, lace of unilar per gated, if	flowing we flowing we cementing. use of grountinent info	t at 23 th of Tes packers, adwater if ormation, rigation)	Continous  type of shutoff, le not at well, and including number  O. 200  (o. 20 and	oca- any of

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. 38192

216-28 COPY

Spote of Montana, County of Printers

Filed NEC 23 1964

GROUNDWATER INDEX Page \_\_\_\_\_ County Fugue Twp. 2/76 County File No. Name of Appropriator Type of Form Remarks

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; Toplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

38791

COPY

State to Mantona, St.
County of Fergus. St.
Filed DEC 23 1964

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE

MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER

Lewistown, Kontana 59457 ..... LICENSE NO. 19.

#### DRILLER'S LOG

30

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.

4	APPROPR Devi			ANS OF	WELL				at which water is found and to which water rises in well.	
(Under	Chapter 237	Montana	Session	Laws, 1961	, as amend	ded)	Top of	Ground	(Eler, above sea level) 320	00
This form	to be prep	pared by d	iriller, ar	nd three co	pies to be	filed	From (Feet)	To (Feet)		
by the owner with the County Clerk and Recorder in the county in which the well is I sted, last copy to be retained by driller.					0	18	Surface Drift			
Please answer all questions. If not applicable, so state, otherwise the				18		Sear Bay Shale				
form may	be returned	<u>.                                    </u>					170	285	Judith River formati	<b>an</b>
A E	rvin Sm	ith	r-	······································			285	286	Extremely hard rock	
Owner		T.F.T		For Admi	nistrator's L	Jse	286	298	Variated shale	
Address S.	ulfolk.	Montan	a	File . 1/0	116		298		Coal	
			1	$\mathcal{J}_{\omega}$	dy 27,	1954	301	310	arown and gray waria	tea
	***************	************			5	Pen.	310	312	Coal	- بدوانهای میآنانده
Date well	started	July 1.	1970	GW 1		Ì	312		Brown shale	
			1		*****************		321		Layers of rock and a	be L
con	npleted 1	115 9,	1970				476	410	Hard sandstons Shele variated	
Time of in	rell	nillari					510	511	Hard rock	
type of w	CIT	is other based on the first teaching and the second	De	ig, driven, bored	or drilled)		511	527	Sandstone	
Equipment	used	Rotary	•••••	····			527		Sandy shale	
			((	churn drill, rotar	y or other)		555	555	Dark brown shale	
Water Use	e: Domestic	∐ Mun	icipal [	] Stock 🛂	Irrigati	on 🗌	557	558	Sandstone hard	
Ind	lustrial []	Drainage	ПО	her 🗀*	Garden/Lav	מעה רו	558		Sandstone	
			<u> </u>		OSIGEII/ ESI	····	57E	579	Hard silicate sandst	one
*Describe	*						579	E0E	Vater Sandstone	****
USE: If us	sed for irrig	gation, ind	ustrial,	drainage or	other. Ex	kplain,	595		Variated shale	***********
state	number of	acres and	location	or other da	ta (i.e. Lot,	Block	608	609	Sandstone	
and	Addition)	*** **** * **.***				** ****	609		Variated shale	
CCTILA A TEI		AUTUDO ALA		44 a mm7 f	lashla		653 710		Sandatone Water	
***************************************	D ANNUAL 1			ne whor.	rcaolo		TTA	733	Extremely hard rock	
Max of Drilled Photo	Size and Weight of Canton	(Feet)	To (Feet)	r	ERFORATION	₹ <b>5</b>	719	750	Sands tone	
7-7/8	UI Cambag	0	25	Kind Size	From (Peet)	To (Feet)	750		Hard rock	
4-3/4		25	808	& x 3"	560	600	751		Sandstone, Water	
-•	2" gal	7 -		slots -	640	800	<del>778</del>	800	Hard rock, Water Sandatone, Water	
	~	above	900		] !	1		808	Shelo	
		gr. 1	300		[					
		<b> </b>								
	<u> </u>	)				<u> </u>				
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T	<u>N</u> Rs	C.1 <u>E</u>	****	****						
41	S	W				*********			1 54	
	LOCATION				SE, IF POS	SSIBLE.		<b> </b>		
EACH SM	ALL SQUARE	E KEPKESEN	415 40 A	ACRES.						
Driller's Si	gnature	المراسيل	1. 4	MAKE						
					1				مين مين ، دين مين مين من	
Driller's A	ddress	nte. 2	Box	<b>4</b>	•			<u></u>		

808 Show exact depth of bottom

40116

State of Montana, County of Fergus. ss.

Filed JUL 27 1970

19

1:25 o'clock ... M.

The County Clerk and Recorder

GROUNDWATER INDEX

County Jugust Twp. 21 % Rge. 22 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
23	Muray Russell R Kamasek Jan D	DW4 Vist 2 102	8624	
32	Komarek Jac D	Vater Viel 32 g	6214	-
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8624 File No.

DUPLICATE

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

#### Declaration of Vested Groundwater Rights

START FRANKER

Dudull- A Mill	rice of L+376 ROV
(Name of Appropria	tor) (Address) (Town)
have appropriated groundwater lows:	tor) of (Address) (Town)  State of 12-12-12-12-12-12-12-12-12-12-12-12-12-1
N	2. The beneficial use on which the claim is based State to
	3. Date or approximate date of earliest beneficial use; and how continuous the use has been dept 30 - 195/
E	Continuence
	4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 galage for the common of the comm
	5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner
s 	thereof had a ser weeken
1.4NE Sec 23 T2/R22	,
dicate point of appropriation	
d place of use, if possible.	<ol><li>The means of withdrawing such water from the ground and the</li></ol>
-	location of each well or other means of withdrawal
ach small square represents 10 cres.	articles
res.	1
The date of commencement and drawal of groundwater	articles
The date of commencement and drawal of groundwater  The depth of water table  So far as it may be available, the	d completion of the construction of the well, wells, or other works for with-
The date of commencement and drawal of groundwater  The depth of water table  So far as it may be available, the	d completion of the construction of the well, wells, or other works for with-
The date of commencement and drawal of groundwater  The depth of water table  So far as it may be available, the	d completion of the construction of the well, wells, or other works for with-
The date of commencement and drawal of groundwater  The depth of water table  So far as it may be available, the	d completion of the construction of the well, wells, or other works for with-
The date of commencement and drawal of groundwater  The depth of water table 3.  So far as it may be available, it other works for the withdrawa	d completion of the construction of the well, wells, or other works for with-  the letter letter force  70 ++  he type, size and depth of each well or the general specifications of any  1 of groundwater  attrices and letter force  Authority  Authority  Indivater withdrawn each year approximately who well.
The date of commencement and drawal of groundwater  The depth of water table 3,  So far as it may be available, the other works for the withdrawal.  The estimated amount of grounds.	d completion of the construction of the well, wells, or other works for with-  the factor of the factor of the general specifications of any  of groundwater  action of each well or the general specifications of any  action of groundwater of groundwater of the general specifications of any  action of groundwater of groundwater withdrawn each year of the general specifications of any  action of the decilling of each well if available I to the to the general specifications of any
The date of commencement and drawal of groundwater  The depth of water table  So far as it may be available, the other works for the withdrawal.  The estimated amount of grounds.	d completion of the construction of the well, wells, or other works for with-  the factor of the factor of the general specifications of any  of groundwater  action of each well or the general specifications of any  action of groundwater of groundwater of the general specifications of any  action of groundwater of groundwater withdrawn each year of the general specifications of any  action of the decilling of each well if available I to the to the general specifications of any
The date of commencement and drawal of groundwater  The depth of water table  So far as it may be available, it other works for the withdrawa  The estimated amount of ground the log of formations encounters  The log of formations encounters	d completion of the construction of the well, wells, or other works for with the letter of the force  70 +1  the type, size and depth of each well or the general specifications of any lof groundwater  action of the well, wells, or other works for with the letter of the force of the general specifications of any lof groundwater withdrawn each year after the letter of the following the desired of the following the general specifications of any log groundwater withdrawn each year after the letter of the following the following the general specifications of any log groundwater withdrawn each year after the log groundwater with the log groundwater with the log gr
The date of commencement and drawal of groundwater  The depth of water table  So far as it may be available, the other works for the withdrawal.  The estimated amount of ground the log of formations encounter that the state of the withdrawal.  Such other information of a single-state of the state of the withdrawal.	d completion of the construction of the well, wells, or other works for with-  the letter of the force  70 +t  the type, size and depth of each well or the general specifications of any  1 of groundwater  and water withdrawn each year approximately the following the desired in the drilling of each well if available   the to the following the followin

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. 1484

8624 COPY

County of Ferrous.

Fund FEB 1 5 1962

at 4:00 o'clock T: M

County Cherk and Recorder

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Foum No. 18

8-60 MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana STATE ENGINEER WATER WELL LOG Owner be D. Komarek Address Roy Driller Wellman of Munson Address Glass Range Date Started May 22-61 Date Completed May 25-61 Location: Sec. 32 T. 21 R. 22 4 sec. 5. W. J N E Equipment used (Churn, drill, preary, other) Type of well\_\_ Domestic [ Municipal Stock Irrigation Water use: Industrial [ Drainage 🗌 Other Type Steel 11 lf Size 45 Casing: // ft. to /// ft. 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: 1 ppro 30 lb./sq. in. on: 5/25/6/ Pumping water level feet at gal. per min. How tested: Length of test\_ Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of Formation shut off with shoet Comented (over)

Log of Weil

Depth,	feet	
From	То	Description of Material Drilled
2	14	Surface gum is
14	18	gravel Conglomente
18	21	Bestonial sand
31	60	
60	64	Hard rock
64	105	Bantonic sand
105	107	Hard sock
107	125	Bentonii sand
125-	130	I kiley sand besign
13.)	140	Bentonic Sand
140	149	Shaley sand Hard
140	152	coll
15 2	166	Bentonic sand
166	168	Cosle
168	200	Bentonic sand
200	240	Brown shely sand
240	260	Bertone Gand
260	217	
277	279	Hard Rock
279	281	Sand good porosity (water)
281	294	Sand tight
		Carlo Mara
		Constitution of the second of
		98
		Paper Contraction 19 0

282

T	R. 22L
County	gue
MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana	
WATER WELL LOC	CTATE EMPLEET

Butte, Montana	
WATER WELL LOG STATE ENGINEE	R
Owner pe D. Komarek Address Kry-mint.  Driller Willman & Munson Address Grass Range:	
Driller Willman & Munson Address Shape Range:	200
Date Started June 1 - 61 Date Completed June 5-	ا ي
Location: Sec. 32T. 21 R. 22 4 sec. Swa N/	4
Type of well Diller Equipment used Churn, drill, rotary, other)	
Vater use: Domestic Municipal Stock Irrigation	
Industrial Drainage Other	
Industrial Drainage Other  Casing: Oft. to 100 ft. Type Ill. Steler Size 4/2	
Casing:ft. toft. TypeSize	
Casing: ft. to ft. Type Size	
Perforated or Screened: Ft. to ft. Ft. to ft. to ft.	
Type of screen or perforations	
Static Water level, for non-flowing well:feet	
Shut-in pressure, for flowing well: app. 20 lb./sq. in. on: 6/3/6/	
Pumping water levelfeet atgal. per min	
How tested:	
Length of test	
Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)	
Cemented	
(over)	
· · · · · ·	

Log of Well

Deptl	h, feet		
From	То	Description of Material Drilled	
0	14	surface gumbo	
14	18	gravel gorglomerate	
18	60	Bentonic sand	
40	64	and sad noch	
64	105	Bentine Sand	
105	107	Hard sanduch	
107	125	Restour sand	
125	130	stale	
150	149	Bentoni sand firm	
149	152	Coal	
152	166	Bentoni sand	
166	168	Coal	
168	200	Bertonic sand	
200	240	Krow shally sand	
240	222	Kertonic sand	
277	279	Hard lines and	
779	28/	Sand good possibly (water)	
281	294	Sand medicin from	
		2 72 [8	
		4 3	
		[ 83 ] <b>[</b> 3 ]	130
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		1.199	
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			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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County Turquel Twp. 2/76 Rge. 23 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
18	Murray, Bussell.	That the Log	7374	
18	Muray Russell	2174	8625	
2.2	Generali Dan	Bn2	29/40	
31	B. L. M .	272	31128	
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g Mariana.		2	18
T J/VR	23	محر ا	
County 75.007			

### MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana

#### WATER WELL LOG

					/	/
	Owner 1	رمه کی برسی	2642167	Addres	s Kir) , 7	cont.
	Driller & L.	(Clina.	+111h	Addres	s Sean Ja	) 4 240 C
	Date Starte	a July -	24-61	Date Co	ompleted har	30-61
	Location: S	tor 18 T	2/ 223	F // spc //	19 91	7
Type of well	Dug, driven, bor	red, or drilled)	Equipment use	ed /(c	hurn drill rodary, other	
Water use: Dom	nestic	Municipal				]
	strial			:		****************
	2t. to 4					
Casing: 7 3	It to	6 h n. T	ope Juliani	Size	2	
Casing:	ft, to	ft. T	уре	Size	***************************************	••••••
	eened: Ft.		1	•		
Type of screen or	perforations	2616	6			*****************
Static Water leve	l, for non-flowing w	rell:	•••••	······		feet.
Shut-in pressure,	, for flowing well:	apped >	lb./sq. in.	on: //	(date)	,
Pumping water le	evel	feet at	t <u></u>		gal. per min/	••••••
	***************************************					•••••
Length of test			***************************************			****************
Remarks: (Grave	el packing, cement	ing, packers, typ	e of shut-off, de	pth of shut-o	off)	
	Come, le					************
		•••••				
	······································					*************
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		***************************************		*************	*****************************	*****************
<b>*</b>			(over)			

#### Log of Well

Depth	1, Aesch	Description of Material Drilled
From	То	Description of Marchael
	10	confact soil & with
10	15	grand ?
15	.e/c	riha (
1/0	42	Carloration - 200 5
42	7.5	finite cond
15	54	ostha (c
54	94	hard-ordy - bale
91	97	Mixtue Land
22	101	Haid wand
204	109	-acheral
102	110	Carfordions
110	137	-feritie -and
132	140	t/odesel
140	156	offiction sand
156	160	-firm- shall
160	169	Carforationa
164	154	e brown should
154	157	
112	204	fenetic ward
204	226	- shale from
296	217	Louitie - sand
977	25/	Hard ward neck
25/_	255	Sand Jard generity ( wahi)
55	266	Davidy Killmitt

-Helena Independent Record

File No. 8625

DUPLICATE

T. 2/R &3 County Farques

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

Declaration of Vested Groundwater Rights

(Under Chapte	r 237,	Montana	Session	Laws,	1961)	ž	ENGINEER
---------------	--------	---------	---------	-------	-------	---	----------

1.	Russell & Murray (Name of Appropriator)		of Bod 386 (Address)	(Town)
	have appropriated groundwater acclows:	ordir	State of The Montana laws in effect prior	r to January 1, 1962, as fol-
	N .	2.	The beneficial use on which the claim	m is based Stock
-		3.	Date or approximate date of earliest tinuous the use has been	
w  -	В			
-	<b>b</b>	4.	The amount of groundwater claimed per minute) fall feer min	
ŀ		-		
ζ.	8	Э.	If used for inrigation, give the acre lands to which water has been appl	ied and name of the owner
A)	WASE Sec. 18 TO R 23 E		thereof Let Z	sed for linigation
	dicate point of appropriation		The second secon	
	d place of use, if possible.  ach small square represents 10	6.	The means of withdrawing such wat	· ·
	res.		location of each well or other means	2 Withdraw 3 3 E
8.	The depth of water table \$60	ype, s	ize and depth of each well or the go	eneral specifications of any
	2663-1		allessay p	<i>y</i> yyy
	The care decognition of the control			
10.			withdrawn each year 19,000	gal
11.	The log of formations encountered that the state of the s	in the	drilling of each well if available	Hard sand
12.	Such other information of a sim lar reference to book and page of any	nati	re as may be useful in carrying out th	e policy of this act, including
			Signature of Own	well of Murray
			Date	2-3-62
			1 C	animate in which the well is

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.

8625 COPY

Blacks of Moustana, County of Forgus.

PHON FEB. 1 5 1962 19
4: 9 0 0 clock 9. 16

Way Rothland
Gowath Clock and Resorder

42 mp

GW	•	Approved Swith Fo	orm—State Publishing Co., Helena, Montana—46905
File No			T.Z.I.W. R. Z.3.E. 1/2
DUPLICA	ATE	· .	County Eggs
	LOG		e of montana
	· 2		CONSERVATION BOARD
	Top of Ground		
	(Elev. above sea level	•	oletion of Groundwater
			n by Means of Well AFTER JANUARY 1, 1962
			tana Session Laws, 1961, as amended)
-			kl Address Roy, Montana
-			ng Co Address Grass Range Mout
			of groundwater. No tapplicable
		Date well started 2/1/67	Date completed 2/21/67
	See		Equipment used Rotary
	Attached	(Dug, driven, bored or di	rilled) (Churn drill, rotary or other)
-	,,	Water use: Domestic Industrial I	Municipal ☐ Stock ☒ Irrigation ☐ Drainage ☐ Other ☐
- 1	Copies		character and thickness of the different strata l, clay, shale, gravel, rock or sand, etc. Show
-	for	depth at which water is encounte strata and height to which the w	ered, thickness and character of water-bearing
- 1	,	Size of Size and From	Ta
<b>- 1</b>	Logs	Drilled Weight (Feet	(Feet) FERFORATIONS
		1374 85/201 0	Size (Feel) (Feel) 60 Cemental O 60
		6/2 8 0 AT V6 C	) 1612 conneted 1400 1612
		1 2 DD. 9.8% O	1612
		3/8-161	
		47800.04 15	15 1868 raylar 1755 1780
_ 1		N	Static Water Level for non-flowing well
-			Charat feet.
<b> -  </b>			Shut-in Pressure for Flowing Weil. 10
- 1			Pumping Water Levelfeet atgal, per minute.
-		W	Discharge in gal. per min. of flowing, well
<b> -  </b>			130 gal/poin
		52	How Tested.
		8	Length of Test
	p. 1 1, pr 11	en 99 mill	Remarks: (Gravel packing, cementing, pack-
	SW & SEK	Indicate Iccation of well and	of 1 2 D.D. Casing Comented
		place of use, if possible. Each small square represents 40	INSORGE TIDAT STOC ON
		neres.	bottom using mud
- 1		. p. v. u., fr a. v. a	(Continue on reverse side)
-		USE-If used for irrigation, in	ndustrial, drainage or other. Explain, state
		number of acres and location).	tion or other data (i.e.: Lot, Block and Addi-
	Show exact depth of bottom.		
			<u> </u>
This form	to be prepared by driller, and three copi	es to be filed by the owner with the	Dellada Lisaan Na
County C retained l	lork and Recorder in the county in which by driller.	the well is located, tissue copy to be	Driller's License Number
	nawer all questions. If not applicable, s	state, otherwise the form vill be	3.411. GILLINGE
returned.	· · · · · · · · · · · · · · · · · · ·		Driller's Signature.
			4:816

STATE WATER CONSERVATION BOARS 29140 MAR 23 1967 COPY Corne of Ferme County Clark and Recorder \$3.00 Per/FE \$3.00 Per/ft. Dan Cinrhaki Weli do. 1 STATEMENT 1022; of 4 1/2" C.D. 9.8 3/52 co. or 8 5/8 284/re. 1808 fost drillod 293, or 2 3/8" JEEN

STATE WATER OF THERVATION BOAR

MAR 23 1967

STATEMENT

Dan Cimrhakl Well ho. I

Br. State Inc. State I

New CIminage and and		
1808 feet drilled \$3.00 p 00' of 8 5/8 28#/ft. \$3.00 p 1022' of 4 I/2" C.D. 9.8 #/ft.	er/ft.	
293' of 2 3/8" J55 Tubing at I.IO per/ft 50 sacs type2 cement \$1.75	and -	\$ 322.30 \$- <b>8750</b> - \$ <b>87.</b> 50
Imas tree	000 des des des des latt. His	<b>8 15.000</b>
Cementing through mud pump		
Bloat shoe - Eubber plug-		•
Drilling out plug		\$315.00

TOTAL EXPENSE \$ 9037.80

Fergus County Roy, Montana

O to 558 Marine dark clay shale

558 - 561 Bentontic sand sandy shale lignite layers

561 - 625 Bentonitic sand

625 - 628 Coal

628 - 690 Bentonitic sand streaks

690 - 701 Hard limey sand

780 - 811 Salt & pepper sand

811 - 970 Bentonitic sand hemitik layers

970 - 1194 Bentonitic sand interbedded light colored

sandstone sandy shale

1194 - 1609 Marine shale bentonite streaks becoming

shale and sandy shale

1609 - 1612 Hard limey sand

1612 - 1638 Sand & hard streaks of sandy lime

1638 - 1695 sand ( started flowing 30 gals./min. at 1640)

1636 - 1726 Brown lignitic nodular sandstone to white

1726 - 1730 Salt & pepper sand ( good porosity)

Well increased to 130 gals. / min. flowing

1780 - 1783 Hard sandy lime

1783 - 1790 Sand shale streaks

1790 - 1844 Sand shale streaks

1790 - 1865 Sand shale streaks

Bearpaw Approximately C to 561
Judith River инпинини 561 to 1194
Claggett инпинини 1194 to 1609
Top of Eagle инпинини 1609 on

DAN CIMRHAKL Well SW4 SM4 Sec. 22 R23E T21 N Roy, Montana Drilled by Munson Drilling Co. Grass Range,& Winnett. Mont.

No	DON'T TO WAT	TL RESUUR <b>C</b> E	ಎ BOARD		т.5	S. A. A. B	Montana—42	
LICATE	REC		9			nty. <b>3</b> 2		
	•	<i>:</i>		STATE	OF MON		9-11 4	
LOG	constituted being the formula and the residence		ADMINIST	RATOR	OF GROU	NDWATE		
Top of Ground						ingineer	_	_
(Elev. above sea level	L)		ice of C	-	-			
27 Light young it an	Car garman	な <u>。</u> な~)	Appropri DEVELO			eans o Wary 1,		
- 112 Blok, Lite.	, v	•	(Under Chap			·		
All land	~ <del>*</del>	vQ.	* m			P		
122 Jum to med.	Harryan	wner De.				ess Jenn	•	<u> </u>
2.13 X7 hard 9m	y de la G	Hieron	unter-u	uch L	n Addr	ess. L.Ca.	Mere,	Lillon
3 18- fine togeto	Van ton	ate of Notic	ce of approp	riation of	groundw	ater	•••••	
8-195 ALK. ALK.		ate well sta	rted	6-17	66 Date	completed.	6-23	-66
11 Grows spa	<b>9</b>		1 1	rel		ent_used	W	 دری
212 men Haro	anes as	ype of wel (Dug, Driver	n, boted or dri	lled)	(Chur	n drill, rotar	y or other)	
2. 33 med water	zhai	Vater use:	Domestic Industrial	□ Mu	nicipal 🗌 ainage 🗍	Stoc Othe	k 😰 Irr	igation
0. 279. June 700	0. 2. 2	o Indicate	on the diagra	m the ch	aracter an	d thickness	of the dif	ferent s
9-089- Hand . Expire &	24 5, n	et with in	drilling, such ch water is er	as soil,	clay, shale	, gravel, ro	ck or sand	d, etc. S
9. 241 X Kang 5.5	, 5.5. s	trata and he	eight to which	the wat	er rises in	the well.		
7. 298 Hand grey as	al week =	Size of Drilled	Size and Weight	From (Peet)	To (Feet)		PERFORATIO	NS
8 306- farm drawn	ah.	Note	of Casing	,	646	Kind Stre	From (Feet)	To (Fe
6. Par Brown ah W	light, stills.	614	7111	_/		threk	469	477
5-393 Light sens &	A Wanted	6	1			Section	520	561
3. 427 Just Rens ali	20 - 1 ac	1366		, !			582	\$0.
and the state of t	wath							
2 469 Just Blue al.	Hand Strong			 	<u> </u>		 	1
4. W. Bou all drill	( funta)	·	N	<del>~</del>	Static Wa	ter Level	for non-f	lowing
4 487 - Hand Right	my ak	z X		\ s	Shut-in Pro	ssure for h	lowing W	ell <i>l.D.</i>
ai to each	504			1		Water Leve		
7 17 . unglidated	A STORY	<i>-</i>	311	E	at	ga	l. per mini	ite.
a. a. W/ Zives	know sh.			1	Discharge	in gal. per		
2 Dear hand	sharps.00	•			T . TD .		•	50X
W. sold stee	7			ļ		l Test		
161. Blue some	ah. tribe	1661	5			(Gravel pac		
1381- Jany 7	John SSN.	F1/ NIKon	31 m21 m	.23 °	rs, type of	shutoff)	<i>12</i>	
The state of country			ation of well if possible.		Kills	ser- fla	ر سرندگاری	2
CLID- Die mal	and Guly A	mall squar	e represent	a 40 "	*	1 3 20	7 43	(A. A.
of sandy sh	n É	cres.		ن. 	Later 7. Flater	and a rings of the second	ere	
0-646- Black &	un.	***************************************		************		(Cor	tinue on i	reve <b>rse</b>
1	-	1010 T.C					other. E:	

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.

Show exact depth of bottom.

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

Driller's License Number Aton Allisan - Driller's Signature

31128 COPY

State of Mondami, 185.
County of Freques.
NOV 2.4 1967

Pland
Li.25 Velock L. M.

County Stark and Recorder

a 200 pol-

GROUNDWATER INDEX	armeniana visite			سناده و در د و دوست	Page / of /	
County Fernal		_Twp.	2170	Rge.	24E	

general section (1984)

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Sec.	Name of Appropriator	Type of Form	County File Ma.	Romarks
6	Monte sa skylwy Segartous 45 A B. L. M. Burgerand	Water Mis Log	4159	-
13	Bureau of Land Mangement	Interstition	16869	
	<i>l'</i>			
		<u> </u>		
<b></b>				
		***************************************		
<b></b>		<del></del>	<del></del>	<del> </del>

Form No. 18 8-60	T. 21 1	R . 248
	County FEROUS	
MONTANA BUREAU OF M Butte, Mo	NES AND GEOLOGY tana	D)ECEIVE[]
WATER WEL	LOG	STATE ENGINEER
Owner Montana Highway Depar	Address	Helena, Montana
Driller Cecil Clements, Mont	Hey, Dept. Address	Helena, Montana
Date Started August 12,	Date Co	ompleted Oct. 17, 1959
location: Sec. 6 T.	21 W. R. 24 E	4 sec. 344 88D
Type of well Drilled Eq	ipment used Rot	tery Grill
Water use: Domestic 🗷 Municipal	Stock [ ]	Irrigation
Industrial Drainage	Other	
Casing: top wall 0 ft. to 97 ft. T	pe black iron	Size 4
Casing:ft. toft. T	pe	Size
Casing: ft. to ft. T  Perforated  Perforated or Screened: Ft.0-bottom to ft	pe	Size lack 1760 2 to ft. 320' top wel
Type of screen or perforations perfora		
Static Water level, for non-flowing well		feet.
Shut-in pressure, for flowing well:		
Pumping water level feet at	gal.	, per min, 3 1/2
How tested: Pressure gauge		
Length of test		
Remarks: (Gravel packing, cementing, pashut-off)	kers, type of shu	it-off; depth of
(see	everse side)	malandragiya Tilisangga asarinda o masur "Pisarin malaquid ya cilinga cina, asaringa di Pisari Majarin masur
Packer at 175.0' - rubber with stainless stee'.	oands, well comented	with Type 3 cement
around 2" pipe to the packer: 4" casing cement		at bottom of 4" pipe.

Log of Well

Depth,	feet	
From	То	Description of Material Drilled
01	41	Fine, brown sand
41	17'	Damp, brown, Bear Paw shale
17'	301	Brown sandy clay
301	321	Damp, Bear Paw shale
321	64 I	Hard, dry, gray shale
641	71'	Soft strata
71'	971	Hard, dry, gray shale
971	1171	Bottom of 4" casing-hard dry gray shale
117'	118'	Hard, gray sandstone (1' thick)
118'	121 '	Soft gray sandstone
121•	1381	Hard, gray shale
1381	155'	Medium hard, light gray, sandy shale
155 '	1631	Hard, gray, sandy shale
143'	1701	Hard, gray sandstone
1701	1801	Rubber packer 4' long, top of perforated 2" pipe
1.60 :	1831	Soft strate, gray clay with some Iron Pyrites
183 '	1951	Medium hard, light gray sandstone
195*	2651	Soft, gray sandstone
2651	2761	Hard, gray sandstone
2761	2831	Soft, gray sandstone
283 '	287 '	Hard, gray moundstone
287 '	3041	Soft, gray sandatone
304	3041	Original hole before cleaning
304 '	3051	Bottom hole in soft, grey sandstone
3051	3141	Very hard, gray sandstone  Bottomed hole in hard, gray sandstone
3141	3161	Bottomed hole in hard, gray sandstone

1159

CARTER THUKE	e 21: 295138AD
T 3/1/ R 3	13 24 24
County Ferges	

# DECEIVE County Fe County Fe County Fe STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana

Sec. 13
O Driller Michael Mannen d'adle ag le Address & 433 Merce, Mont
Date Started DIR. 1757 Date Completed 1959  Location: Sec. 12 T. 2/1 R.24 J. y. sec. Sec. 7 S. N. Y. BHD
Type of well Direction (Dug, driven, bored, or drilled) Equipment used (Churn drift, rotory, other)
Water use: Domestic Municipal Stoc. Z Irrigation
Industrial Drainage Othe:
Casing: See face ft. to 302 the Type 65 "cd 25 loosize 6" 1.d
Casing: 30 12 ft. to 60 1 ft. Type 15 CM 11 65 Size 4" 1.d
Casing: ft. to ft. Type Size
Perforated or Screened: Ft. 425 to ft. 446 Ft. 557 to ft. 6.4
Type of screen or perforations y" X 6" 6" to tage the grant of the gra
Static Water level, for non-flowing well:
Shut-in pressure, for flowing well: O 1 1/2 30.169: 1b. sq. in. on: 11.0 12.59
Puniping water levelgal. per mingal. per min
How tested:
Length of test.
Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
Cent 1/10

(over)

	th, feet	Description of Material Drilled
From	То	
	20	During the San La
70	40	in it of the starter
110	785	Shale & Bestoutle cardy Thomas
285	290	Carbo accaous shale
290	39.7	Conti
292	286	Leandy whele
383	387	Site V paper dan ( ren)
387	11/8	Dandy Birtonite
418	423	1 Hard Can ark
422	450	Jall & Ripper Sand Curter
4.52	555	Brown Shale sea Lateric Stringer
555	561	Hard daniel start
561	576	Lit & Descendent Gery water - a cterior flow
576	55.3	Hard sand of times
387	571	Tred word (-/ Com increased)
591	601-1.1	Janety State of Billerte
		y,
- military a partie of the partie of the military and the	- 4. sakibi-1990 P	A DE RESERVE
144, <u>1, 144, 144, 144, 144, 144, 144, 1</u>		
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المستحداد مييه المتدر بغيريا بمتويد	i i	
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