7.6.735 236706 226706 24. 25.04 P.M.

> Rosalinvil Maloney. Alex Lecoules

						,=.				News, Malta
المفحر	W 2				•		*	<b>.</b> 1.		10
File N	0	STAT	E WATER	CONS	SERVATIO	N BOAR	7	24 R	25E	
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15 35	35 blue shale 48 sandy green shale		i	App	oropr	1atior	by M	eans c	I AA ET	
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58	70 dark sandy shale		Owner		illips	i-		SS		
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-			drilled	)	Domesti		othe Inicipal [		Irrie	ration 🗔
-			Water u	ise.	Industria		ninage		]	
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<u> </u>								W		
<u> </u>										
2 <u> </u>		·								
-				N			Static Wa	ter Level	for non-f	lowing well
-				1				*		feet.
				WAY.			Shut-in Pr	essure for	Flowing V	Vell
							Pumping '	Water Lev	er	1ee
1							Discharge	in gal. pe	min. of f	lowing well
		*	+	1		"		h:	ailer	<u>الله و المحمد المحم</u> المحمد المحمد المحم
			+	+			How Test	ed	one hou	r
_			+	+	_	-	Length of Remarks:	(Gravel	packing,	cementing
<u> </u>				+-		-	of use of	ornundwa	ter if not	ion of place at well, and
_							any other	· similar 1	pertinent	information irrigated, i
-		NW		_ Sec.	8 T24	R25E	used for	irrigation)		
-			Indicate place of	use, i	f possible	e. Each	gravel	packed w		
1 .			small s	quare	represe	nts 10				

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.

acres.

Show exact depth of bottom.

13

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

15

Driller's License Number

Driller's Signature

State of Montana, County of Phillips. Filed for Record this ... day
of ... A. B. 19 Get ... day
p'clock A.M. and duly Recorded in book
age

Filed for Record this ... day
by clock A.M. and duly Recorded in book

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This form to be pregared 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.

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Driller's License Number

Driller's Signature

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	Sec.	3

T 24 R 25

County Phillips

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECEIVED

### Notice of Completion of Groundwater Appropriation Without Well INEER

(Under Chapter 237 Montana Session Laws, 1961)

						Date of Appropriation of Groundwater	1957
						Owner Lazy JD Cattle Co Addre	Kortman Montan
	r vite,	1.				Owner	18.70
	: • • • • • •					Contractor (if any)	3-10-10-10-10-10-10-10-10-10-10-10-10-10-
						Address of Contractor	
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		4				Date Started 1957 Date Co	in The Control of the
		ń				Describe means of obtaining groundwasub-irrigation and other natural proc	ter without a well "as by
		7	Π			water when applicable	and the second of the second o
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		3 -					
	Sec. 7						The Addison By Department
	point of use					10 gom, continuous use.	
r brace	e or use	, 11 1	hnaa	DIE	•		
						<u></u>	**************************************
						<u> </u>	······································
						Keeny J. D. C	ittle Co
			٠,	,			1 0 -
						Signature of Owner Day Lil	suron sec ful

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.

15734 236705

201 De 30, 1993 QJ 203 PM. 2000.

Rosalenell Maloney Oleck & Encouler

corder in the county in which the well is located.

and Quadruplicate for Appropriator.

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

the character is ear ton ton to the character of the char The second of the free County Mater Power as the County Asia 一個 油田 County of Phillips,
Filed for Record this,
of NAME A. D. 199-781.3/5
o'clock M. and duly Barries In book
Page County Record

By

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ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

File No.

DUPLICATE

DECEIVE

Robert L. Lund (Name of Approp	riator)	, of(Address)	Zortman (Town)
(Name of Approp		State of Montas	
have appropriated groundwater			
*	2. Ti	he beneficial use on which the classes of garden irrigat	m is based <b>domestic, sto</b> Lon
	3. Da	ate or approximate date of earlies the use has been approximate ap	st beneficial nse; and how continuou
	- 4. 70	he amount of groundwater claimer minute)	ned (in miner's inches or gallo
½ Sec 27 T 24 N R 2	to	used for irrigation, give the ac which water has been applied used to irrigate gard	reage and description of the land and name of the owner there in by 5. 5. Fewlet,
d place of use, if possible. Each		the manner of michigan decrees well a	aton from the answerd and the 1-2
dicate point of appropriation d place of use, if possible. Each all square represents 10 acros.	ti	he means of withdrawing such we on of path well not other means of the path of	Harly winderful on
d place of use, if possible. Each call square represents 10 acres.  The date of commencement a drawal of groundwater	nd completion	of the construction of the well in	Willy winder 11 on
d place of use, if possible. Each use square represents 10 acros.  The date of commencement a drawal of groundwater.	nd completion	of the construction of the well in	wells or other works for wit
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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. 18050

15748 15748 236719

Feled: Dec. 30, 1963 21: 2:17 P.M. Zu # 3. "

Rosalenell Maloney Clerk + Recarder

G♥	Approved Stock Form-State	Publishing Co., Helena,
File No	•	T 24 <sup>N</sup> 1
DUPLICATE	•	CountyPh

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE 2 ECEIVE

## Declaration of Vested Groundwater Rights ENGINEER

	•		er 237, Montana Session Laws, 1961)
	(Name of Appropri	ator)	of the Law 20 Cartle Co. of Zortman, (Address) (Town)  State of Montana
ha	re appropriated groundwater ac	cording to	to the Montana laws in effect prior to January 1, 1962, as follows:
	N		
Ţ.,		2.	The beneficial use on which the claim is based
ļ.,		3.	Date or approximate date of earliest beneficial use; and how continuous the use has been 1957 - continuous
F		- E	
.		4.	The amount of groundwater claimed (in miner's inches or gallous per minute) 5. Spra.
-		.	
L		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
H	4 Sec.36. 124 R. 25		
ıdi	ate point of appropriation		
ıd	place of use, if possible. Each square represents 10 acros.	6.	i. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
			pusp
7.	drawal of groundwater1957	]	tion of the construction of the well, wells, or other works for with
	So far oa it may be available.	the type,	size and depth of each well or the general specifications of any other
	works for the withdrawal of gro	undwater	5" casing, 20' deep
0.	The estimated amount of groun	idwater wi	ithdrawn each year3,000,000 gpy
1.	The log of formations encounter	red in the	drilling of each well if available pot available.
		······································	
2.	reference to book and page of a	iny county	ure as many be useful in carrying out the policy of this act, including record
			Lay J. D. Cattle Co.
			Signature of Owner Date December 26, 1963

Three copies to be filed by the owner with the County Cierk 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. 18029

Mise # 15727

236698

Filed. De 30, 1963 at: 1:56 PM. Zer & 2. . o Rosaline W. Maloney. Clark + Resider

A CONTROL OF THE PROPERTY OF T

GROUNDWATER INDEX

Page \_/\_of\_/

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	.31				
				County	
	Sec.	Name of Appropriator	Type of Form	File No.	Remarks
		10.0		236764	
٠.		Dray 10 Cattle Co.	6.03		
	10	Losy JO Cattle Co.	- GN3	2 36849	
	/3	Logy ID Cattle Co.	GWY	2 36699	
	13	Logy 10 Cattle Co.	1961	228438	
	121	Logy SO Cattle Co.	623	236701	
	ao	Logy 10 Cattle Co.	1958	22 /362	
	21	Logy SD cattle Co.	644	2 36700	
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GW 8	
File No	T. 24 R 26
DUPLICATE	CountyPhillips
ADN	STATE OF MONTANA  INISTRATOR OF GROUNDWATER CODE  OFFICE OF STATE ENGINEER  JAN 2 1964
Notice of Complet	ion of Groundwater Apprepriation Without Well EER
(Und	er Chapter 237 Montana Session Laws, 1961)
	Date of Appropriation of Groundwater 1957
	Owner Lazy JD Cattle CoAddress Zortman, Montane
and the second second	Contractor (if any)
	Address of Contractor
	Date Started 1957 Date Completed 1963
<b>N</b>	Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to
	water when applicable natural springs piped to tank
W	
	Quantity of water developed and used with explanation of met!- od used to measure or estimate such amount. If use is intermit-
ISE 1/4 Sec. 4 T24 F2  Indicate point of appropria	
and place of use, if possible.	
	Tayy D Catting
e e e e e e e e e e e e e e e e e e e	Signature of Owner Lyd Liberran Section Date December 26, 1963
	Dave

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.

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Tiled De 30, 1963 Od 200 PM. Zuza.

Rosalinol Maloney. Clarker Recorder

GW2	` ,					~70
File No	CATE DEC	EI	A FILL		T5	24 26
DUPLI	CATE UU SEE	y - 7	1962	:	Cou	nty Kelleps
	STATE	EN	GINEER	STATE RATOR (	OF MONT	IANA NDWATER CODE
	Ton of Ground					NGINEER
6	blev above da level 3400) clay & Leavel	•				Groundwater ns of Well
10	almes Gravel			. :		Session Laws, 1961)
	cay, ve	<b></b>	Land J. D.	Catt	le Co.	Taxtman. Mant.
-	ŗ	Oriller.	Simpson	Drill	Co.	Salta, Mont.
₹.	No. The second s		f Notice of Appro		-	Heb Gill Gal.
			4		Date	Completed Jan. 6,1962
-	7		f well dril		Equipmer	nt Used Votary
		(dug dril	, driven, bored o led)	r	(Churr other)	n, drill, rotary or
-	_ 250 water level	Water	Use: Domestic [ Industrial [		nicipal [] ainage []	Stock Irrigation
						and thickness of the different
-		etc. Sh	ow depth at which	h water i	s encounte	ay, shale, gravel, rock or sand, red, thickness and character of
-	· · · · · · · · · · · · · · · · · · ·	vater-	bearing strata and	d height t	o which th	ne water rises in the well.
	Str. of Parks Drill	!	Size and Weight of Caring	From (Feet)	To (Feet)	PERFORATIONS Kind From To
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450	rock layer					240
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521	roetlyce	e I		er min. o	f flowing 1	well
579	Riverbyen	H	Iow Tested	wer	Leng	th of Test Hhus
631	file	Ħ	tion of	place of u	se of grou	g, packers, type of shutoff, loca- ndwater if not at well, and any ormation, including number of
138	coel layer s			-		
191	Feel F 1/4 NW Sec/O T24 R26	9	acres in	rigated, ii	d la	I at 638 and
eeen.	Indicate location of well and place of use, if possible. Each		16 7	730	Leel	
7/09	Reference represents 10 acres.	,	to.	- 2		
130	Show exact depth of bottom.	ton	<u>۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ </u>			/5
770	Kd dkrhale.				Drille	er's License Number
	. *				R	Le d'impson
	2				Drille	er's Signature /

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator. 1387

ŕ

No			T 24 R 26
PLICATE			CountyPhillips
*.* *		STATE OF MONTANA	DECEIVED
		STRATOR OF GROUNDWATER PFICE OF STATE ENGINEER	CODE
• .			_ JAN 2 1984
· 1	Declaration (	of Vested Groundwa	ter Rights Engineer
	(Under Cl	hapter 237, Montana Session Laws	, 1961)
		on of the last Til Catt	le Co. of Zorteen,
(Name	of Appropriator)	BESTIDDA.)	(10MIL)
County of Phil	lips roundwater secondi	State of Hontan	at prior to January 1, 1962, as follows:
nave appropriated g	ivanawaki accyia	mg 10 mo 220	,
أحالات		2. The beneficial use on which t	the claim is based
<b>X</b>		s.tock.water.and.do	mestic
		3. Date or approximate date of	f earliest beneficial use; and how continu-
		ous the use has been	101 And Continuous
	E	***********************************	
		4. The amount of groundwate	er claimed (in miner's inches or gallons
		per minute)	
		0.00	the acreage and description of the lands
<u> </u>	<u> </u>	to which water has been	applied and name of the owner thereof
#¼ Sed.3 T	04 p 26		
diente point of an	propriation	******************************	
d place of use, if pos nall square represent	sible. Each	6. The means of withdrawing	such water from the ground and the loca-
			eans of withdrawal
			***************************************
. The date of com	mencement and con	mpletion of the construction of th	ne well, wells, or other works for with-
drawal of ground	water 19	61	
	36		
-	r table42		
). So far as it may	be availably, the	type, size and depth of each well	or the general specifications of any other
works for the with	ratawar or 8: annaw		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
***************************************			
). The estimated am	ount of groundwat	er withdrawn each year3,500	*000 Sbà
The log of format	tions encountered in	n the drilling of each well if avail	able 0-150 black shale; 150- 450-600, black shale & ben 157-730 see
tish shale a	nd bentonite e & lignite:	330-450 black share- 652-687, bentonite; 6	450-600, black shale & beni 87-739 sand laver: 739-860
bentonite;	60-284, sand		
9 Quah other inform	nation of a similar	nature as may be useful in carr	ying cut the policy of this act, including
reference to book	and page of any c	ounty record	
***************************************			Lord & Cattle Co
		Signature of Ov	The Start Starten
			- See Mill

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

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226699

2 ded de 30 1963

2 2 3

Rosaleno UT Maloney

Form No. 18 8-60

T. 24	86 A
x ••	
County	Phillips

# MONTANA BUREAU OF MINES AND GEOLOGY ECEIVE

Owner LazyID Cattle Compy, Address Maltn, Mont.  Driller Wellmon & Munnon Drig. Co. Address Grass Range, Mont  Date Started Feb. 14 1961 Date Completed Mar. 2 1961  Location: Sec. 13 T. 24 R. 26 1 sec. NE NW  Type of well Drilled Equipment used Rotory
Driller Wellman & Mumnon Drig. Co. Address Grass Range. Mont  Date Started Feb. 14 1961 Date Completed Mar. 2 1961  Location: Sec. 13 T. 24 R. 26 4 sec. NR NW
Date Started Feb. 14 1961 Date Completed Mar. 2 1961 Location: Sec. 13 T. 24 R. 26 4 sec. NR NW
Location: Sec. I3 T. 24 R. 26 1 sec. NB NW
Location: Sec. I3 T. 24 R. 26 1 sec. NB NW
Tune of well Drilled Equipment used Rotory
Type of well Drilled Equipment used Rotory (Churn, drill, retary, other)
Water use: Domestic . Municipal . Stock . Irrigation .
Industrial Drainage Other Casing: 0 ft. to 907 ft. Type II# Std., Blk. Size 4 1/2 *D.
Casing:ft. toft. Type ·Size
Casing: ft. to ft. Type Size
Perforated or Screened: Ft. 687 to ft. 807 . Ft. 827 to ft. 847
Type of screen or perforations Regular
Static Water level, for non-flowing well: 204 feet
Shut-in pressure, for flowing well:lb./sq. in. on:(Gate)
Pumping water level 320 feet at Seven gal. per min.
How tested: Three Pro. Betling
Length of test Three Hree
Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)  Very little weter indicated before 67 and when displacement on D.G. Floot wide about four cols on two minute intervals.

(cver)

Log of Well

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	feet	•
From	To	Description of Material Drilled
		Surface Cumbo
IO	<del>150</del>	Shele Black
150	330	Shu le Pish scales
-3 <b>3</b> 0 ·	<del>- 335</del>	- Fentonito G
-886	450	Shiele Black
450	480	Shrla & Pentonits
460	560	Sh-le Blrck
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730	740	@sel
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		Sand Pines aster Wishlesed on DaGs_ + Frir Tormity
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		Recorder day

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ile-No		т 23	R 26	******
UPLICATE		County	_	******
	STATE OF MONTANA	0	DECEI &	VE M
ADI	MINISTRATOR OF GROUNDWA		Jan 2 19	164
~ -	OFFICE OF STATE ENGIN		ATE ENG	ini.co
Notice of Comple	tion of Groundwater Appr	opriation W	ithout Well	ייירבע
(Und	der Chapter 237 Montana Session	Laws, 1961)		
		14 T. T.	(); · · · ·	
•	Date of Appropriation of G	roundwater	1937	
	OwnerLasy JD Cattle	Co.Address	loriman, N	ontena
· C	Contractor (if any)	^	6	
37	Address of Contractor	41 14 14 Francos Joseph Praesisters	······································	
	Date Started1957	Date Compl	eted 1963	******
	water when applicable	11.		
	7		***************************************	
		, Ž		
	Quantity of water develope od used to measure or esti			
	*	.71		. 0
<del>-</del> •		ionathe of north	nde of 1166	
ME4 Sec14 T.23. R	•		7	
ME4 Sec.14 T.23. R	ation 10 gom, continues		7	
ME4 Sec.14 T.23. R	ation 10 gom, continues		7	
ME4 Sec.14 T.23. R	ation 10 gom, continues		7	
ME4 Sec14 T.23. R Indicate point of appropris and place of use, if possible.	ation 10 gom, continues		7	

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.

15730

236701

Eles. Lee 30, 1963

Rosaline UM Soney

DEC 31 1958 MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana

STATE ENGINEER

WATER WI	ELL LOG	
J D Cattle Co., Owner Schingon Proc.	Addre	ess. Zoriona Montana
Driller. it. C. Sampson	Addre	Malte, Mentens
Date Started November 1, 19	<b>58</b> Date (	Completed December 2, 195
Location: Sec. 20 T34 N	R 20 E y sec	South east que
Type of well. Chug, driven, bored, or drilled)		0
(Dug, driven, bored, or drilled)	• (	Churn drill, rotary, other)
Water use: Domestic Municipal	Stock	Irrigation
Industrial Drainage	Other:	
Casing: 0 ft. to 725 ft. Type.	screw joint Size	& Inch
Casing:ft. toft. Type	Size	3
		k
		9
Perforated or Screened: Ft. 660 to ft. 700	Ft	to ft
Type of screen or perforations	holes	
Static Water level, for non-flowing well:		•
Shut-in pressure, for flowing well:	lb./sq. in. on:	***************************************
		(date)
Pumping water levelfeet at		gal, per min
How tested:	bailer	***************************************
Length of test	3 hours	
Remarks: (Gravel packing, cementing, packers, type of	shut-off, depth of shut casing and filled	-off)
above the gravel	-	
•		
		***************************************
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************
	***************************************	***************************************
(ove	r)	

		Log of Well	
Depth, feet		Description of Material Drilled	(( <sup>222</sup>
From	То	Description of Maverial Difficu	
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5	100	####/likifit/ dark chale bear pass	
100	103	rock layer	
103	120	dark shalo	
2.20	122	rock layer	
122	390	dark stale	<del></del> .
380	382	rock layer	
382	560	dark shalo	<del></del>
560	563.	resk layer	
563	660	derk shale	
680	710	grey cardstone	
710	720	light blue shale	<del></del>
730	725	very hard rock layer	· · v
725	730	grey abale	F., 1
	ļ	Sobolis Soboli	
	<u> </u>	Schiller Strate of the book with the seconder strategy and the seconde	
2213			
- CO		State of Montane,  County of Phillips, Filed for Record this.  of Cock, P.M., and duty Re Paje.  Y.  Y.  Y.  Y.  Y.  Y.  Y.  Y.  Y.	
		State of Montane, County of Phillips, Filed for Record of Colock PM, and of Colock P	
		fate of county Filed Clock Cock Cock Cock Cock Cock Cock Cock C	_

Mise # 1483.

le No		State Publishing Co., Helena, Montana - 321 a 37
UPLICATE		County Phillips
	STATE OF MONTANA ADMINISTRATOR OF GROUNDWATT OFFICE OF STATE ENGINEER	
De	eclaration of Vested Groundy	vater Rightsi E ENGINEER
	(Under Chapter 237, Montana Session La	aws, 1961)
(Name o	on, an officer of the Lazy JD (Add Appropriator)  State of	ress) (10WII)
have appropriated grou	undwater according to the Montana laws in ef	fect prior to January 1, 1902, as follows:
N		ch the claim is basedstock watering
	3. Date or approximate dat ous the use has been 1	e of earliest beneficial use; and how continu- 1/1/58 and continuous
	per minute)82pm	water claimed (in miner's inches or gallons
×	5. If used for irrigation, g to which water has be	rive the acreage and description of the lands en applied and name of the owner thereof
indicate point of appro and place of use, if possib mail square represents	tion of each well or othe	ing such water from the ground and the loca- r means of withdrawal
7. The date of commo	encement and completion of the construction of ater11/1/58completed 12/2/38	f the well, wells, or other works for with-
***************************************	A property of the second secon	11 1 1 7 7 7 7 7
8. The depth of water 1	table	
works for the withdr	e available, the type, size and depth of each versual of groundwater	halosrtavelpackedatoung
	••••	
		5,000,000
10 mb		
11. The log of formation rocks; 5= 122, rock shale; 56	ons encountered in the drilling of each well if a -100 dark shale; 100-103, rock layer; 122-380 dark shale; 38 do-561, rock layer; 561-680 dark shale; 38 da	trailable 0-5, brown clay gravel 1 layer; 103-120 dark shale; 120 0-382, rock layer; 382-560 dark shale; 680-710 gray sandstor
11. The log of formation  rocks; 5=  122, rock  shale; 56  710-720 1  12. Such other informareference to book an	ons encountered in the drilling of each well if a 100 dark shale; 100-103, rock layer; 122-380 dark shale; 38 60-561, rock layer; 561-680 dark iight blue shale; 720-725 hard ation of a similar nature as may be useful in and page of any county record	twailable 0-5, brown clay gravel 1 layer; 103-120 dark shale; 1200-382, rock layer; 382-560 dark shale; 680-710 gray sandstorrock; 725-230 gray shale.
11. The log of formation  rocks; 5=  122, rock  shale; 56  710-720 1  12. Such other informareference to book an	ons encountered in the drilling of each well if a 100 dark shale; 100-103, rock layer; 122-380 dark shale; 38 60-561, rock layer; 561-680 dark light blue shale; 720-725 hard ation of a similar nature as may be useful in and page of any county record.	vailable 0-5, brown clay gravel. layer; 103-120 dark shale; 120 0-382, rock layer; 382-560 dark shale; 680-710 gray sandstorock; 725-230 gray shale. carrying out the policy of this act, including
11. The log of formation  rocks; 5=  122, rock  shale; 56  710-720 1  12. Such other informareference to book and reference to book	ons encountered in the drilling of each well if a 100 dark shale; 100-103, rock layer; 122-380 dark shale; 38 60-561, rock layer; 561-680 dark light blue shale; 720-725 hard ation of a similar nature as may be useful in and page of any county record.	twailable 0-5, brown clay gravel 1 layer; 103-120 dark shale; 1200-382, rock layer; 382-560 dark shale; 680-710 gray sandstorrock; 725-230 gray shale.

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.

Mise #15729

236700

Fuld: De 30, 1963 at: 1.58 P.M. Full 2.

Rosalene V Maloney Clerk + Recorder

OUPLICATE	STATE FI	VCINEE .	STATE	OF MONT	ANAI)	CEN	IE IT
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10.26 Rose Clay gracker		Approp					
Dh-30 Braver	• · · · · · · · · · · · · · · · · · · ·	(Under Cha			<del></del>		
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sol rock Than shale not		J.D.Cattle			Jorton		
The discontinuous	olale Driller	Eliconerus					1 m/
The Handporter War	Date of	Notice of Appro	priation of	Groundwa	te <b>r</b>	<del></del>	
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68 1/3 Lite mud sto		driven, bored or	<b>y</b>	(Churr	, drill, rotar		7
76-176 X- Hard sands	drille	•	- •	other)			
oll-188 Grensh.	Water Water	Use: Domestic Industrial	_	nicipal 🔲	Other Stock		rigation
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131-132 X Kg d. s. st	strata 1	net with in drill	ng, such a	s soil, clay	shale, gra	vel, rock o	r sand, e
132 135 Blk. Ah.	having	epth at which w strata and heig	ater is enc ht to whie	ountered, t h water ris	nickness an es in the w	a enaracte: ell.	r of wat
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\$56 600 Lay 2h. W/	m fine sand so				<u> </u>	1034	,,,,,
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		ut-in Pressure					
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134 944 Solf gard W. 145 148 - March 148 148 - March 1	acke from Ro	umping Water Le & ischarge in gal.			ell		••••••
138 948 deft gardy 443 948 med harto	All from Ro		per min. of	flowing w			
134 945 Solt gardy 145 145 Med Harto 149 965 Landy al War 163 979 Landy al War 163 979 Landy al	hard ston	ischarge in gal.	per min. of	flowing w	gth of Test	674	······
138 945 deft gan W 445 948 - Med Harto 949 965 - Landy al War 963 - 979 - May al 9779 98 V. Hard ah 1 al 981 1002 - Landy ah 1	hard ston	ischarge in gal. ]  low Tested	packing,	flowing w Lengtherence cementing use of grou	gth of Test , packers, ndwater if	type of sh	utoff, lo
138 94 Soft San W 143 748 - Med Hand to 149 765 - Seed Kend of 163 - 919 - Mary Ah 109 98 1. Names Ah 2 an 1981 1002 - Landy Ah	hard ston	ischarge in gal. ]  low Tested  emarks: (Grave tion of other	packing, place of paimilar pe	flowing wLeng cementing use of grow rtinent inf	oth of Test , packers, indwater if formation,	type of sh not at we including	utoff, lo
963-999 they she as 963-999 they she as 981-1002 Landy she 1002-1004 soft has	hard ston	ischarge in gal. ]  low Tested  emarks: (Grave tion of other	packing, place of paimilar pe	flowing wLeng cementing use of grow rtinent inf	gth of Test , packers, ndwater if	type of sh not at we including	utoff, lell, and number
963-78-200 Ked 20 963-919 Bury 24 919-98 Nand Ship 20 981-1002-20-20 Ship 24 P. 1002-1018 Bulter	Marke from Rome Rome Rome Rome Rome Rome Rome Ro	ischarge in gal. ]  low Tested  emarks: (Grave tion of other acres in	packing, place of paimilar pe	cementing use of grou rtinent inf	oth of Test , packers, indwater if formation,	type of sh not at we including	utoff, lo
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963-919 May Sh. 199-98 Name Sh. 199-98 Name Sh. 199-98 Name Sh. 199-199-199-199-199-199-199-199-199-199	Marks sand Day State of Shell & Sand State of Shell & Sand State of State o	ischarge in gal. ]  low Tested  emarks: (Grave tion of other acres in	per min. of action  I packing, place of similar perigated, if	cementing use of grountinent infi	yth of Test , packers, indwater if formation, rrigation	type of sh not at we including	utoff, loll, and number
1013-Mall square reprinced to 102 mall square reprinced to 102 mars reprinced to 102 mar	Markey Sand R. R. R. Sand Sand Sand Sand Sand Sand Sand Sand	ischarge in gal. ]  low Tested  emarks: (Grave tion of other acres in	per min. of action  I packing, place of similar perigated, if	cementing use of grountinent infi	oth of Test , packers, indwater if formation,	type of sh not at we including	utoff, lell, and number
163-719-18-18-18-18-18-18-18-18-18-18-18-18-18-	Market Start of Bridge Bridge Bridge Band Start of Bridge Band Start of Bridge Band Start of Bridge Band Start of Bridge	ischarge in gal. ]  low Tested  emarks: (Grave tion of other acres in	per min. of action  I packing, place of similar perigated, if	cementing use of grountinent infi	yth of Test , packers, indwater if formation, rrigation	type of sh not at we including	utoff, lell, and number
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State of Montana,
County of Phillips, 

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le No		**********				
UPLICATE	\$	Al		STATE OF MONTANA STRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER	Millips DECE JAN 2 STAIL EN	1964
Notice	of C	omp	etion	of Groundwater Appropriation	\$ 25 <u>2</u> 5.	
e. Er		ΔI	nder (	Chapter 237 Montana Session Laws, 1961)		
		(0	nuer (	Chapter 257 Montana Session Laws, 1901)		t
				Date of Appropriation of Groundwater OwnerLamy JD Cattle Co-Addres	and the second second	Montan
				Contractor (if any)		
				Address of Contractor		
				Date Started 1957 Date Con	npleted 1963	
0	N			Describe means of obtaining groundwate sub-irrigation and other natural process.	-	
				wester when applicable natural ap		
				to tank.	3	
]			4			*************
1	<u>.</u>  -	+++	+-	<u> </u>	***************************************	
1	<u> </u>	+	+-			*************
1		1-1	+-1		***************************************	
		<del>                                      </del>	+-1	Quantity of water developed and used w	vith explanation	of meth-
				od used to measure or estimate such an	nount. If use is i	intermit-

Signature of Owner Blydd Orbins & I

Date December 26th, 1963.

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

and place of use, if possible.

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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.

7/3-73-2 /5-731 286703

led du 30,1963 1: 2:01 PM:

Rosalenoll Malney

Lazy J.D. Cattle Co. T 24 R 26(2) E Sec Driller, Elton Adkinson # 61 Form 2 Glendive our No. Gumbo 0-8' Gravel 8-10 Clay & Quick sand 10-26 26-30 Gravel 30-118 Blue clay 118-2282 Black Shale 2282-2292 Hard Shale 2292-621 Black Shale W bentonite Strks, Fine Sandy gray sh. 621-628 Hard- tomed hard 55, 628-630 Sandy grey sh. 630-638 638-660 med fine sandy clay W/Strks of sand 660-668 Silty green Sh. 668-675 Silty mod stone X hard 55. 675-676 676-698 grey sh. blue sh. 698-731 x hard ss 731-732 732-755 blk. 5h. Rusty med hard 755-763 5h, & rock

grey sh. in Strks Soundy sh

763-789

(over)

Zortma

Phillips Co

Doc #

38578

Q 789-802 Silty Sh hard, fine 55 802-803 light blue sh. w. strks. 803 - 830 Sand uncons. SS, 830-833

greysh. 833-836

hard to soft ss 836-840

grey she wifirm fine 840 - 900 Sand Stringers

900- 903 brown sh.

grey sh. w. firm 903-9371 Sund Stringers

Hard , brown , brittle 9372-938

Soft Sund, we hard 938-945 Stringers

med. hard to hard 945-948

Sandy sh. w. strks of 948-963 brown rock

med hard ss 463 - 965

grey sh. 965 - 979

hard sh. & sund rock 974-981

Sandy sh w. Strks sund 981-1002 and firm sand stringers

1002 - 1004 50xx Sand

1004-1013 brittle rock, Shell & Sund

1013 - Sandy Sh.

1013 - 1025 fine sand W. hard Stringers

black sh. w firm sund stringers 1025-1040

med, hard 55 1040 - 1043

1043-1055 black Sh.

GROUNDWATER INDEX

Page \_\_of\_\_

County Phillips

Twp. 2419 Rge. 286

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
7	Nemy Markit	175K	217418	
/2	TAVA . A. C. C. C. A. A. A. C.	1961	227992	
16	Henry Modell Josephine Henderson	664	3 36544	
21	Case time Winderson	644	23/258	
27	Oosephine Henderson	1941	229345	
2 8	Francis V. Jacobs	Gwa	245014	
34	Mibel Persoult	664	2 37077	
<u>'</u>	PILETT P. INNOUSE	J-9-21	1 3.02	<del></del>
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	T 24 F R Jen
DECEIVED MONTANA RUREAU OF MINES AN	County Philips
MONTANA BUREAU OF MINES AN	
Rutta Montene	ID GEOLOGY
STATE ENGINEER WATER WELL LOG	
WATER WEED DOO	
Owner Henry Hacks.	Address Regim Montana
DrillerE. C. Simpson	AddressMalte, Montens
Date Started Hovenber 15, 1957	Date Completed January 15 195
Location: Sec	
Type of well direct type of well Equipment type (Dug. driven, bored, or drilled)	sed
Water use: Domestic X Municipal S	tock Irrigation
	riatit size & inch
- · · · ·	
Perforated or Screened: Ft	
Type of screen or perforations	
Static Water level, for non-flowing well:	feet,
Shut-in pressure, for flowing well:b./sq. in	. on:(date)
Pumping water level	gal. per min
How tested:	
Length of test	
Remarks: (Gravel packing, cementing, packers, type of shut-off, of	lepth of shut-off)
well was gravel packed with two barrels of	mell paral

(over)

, feet		
To	Description of Material Drilled	
-		
15	plant cya	
17	rooks	
1		
520	sandstone	
521	rock layer	
530	blue shale	. '
595	shale sandstone	•
690		
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	ehaler sandstone	<del></del>
1	· · · · · · · · · · · · · · · · · · ·	
750	sandstone and the same and the	
1	blue shale	
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860	eandy gray shale	
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1	1 1 1 2 1 2 1 2 1 2 1	
	15 17 68 70 80 510 520 521 530	Description of Material Drilled  15 brown clay  17 rocks 68 brown clay  70 rocks 60 gravel and mater  50 gravel and mater  510 sandstone  521 rock layer 530 blue shale  595 shale sandstone  650 blue shale  670 fine sandstone 688 blue shale  690 rock layer  701 rock layer  702 shaley sandstone  703 blue shale  704 rock layer  705 shaley sandstone  686 blue shale  697 blue shale  700 blue shale  701 rock layer  700 sandstone  700 sandstone

min 14704

MONTANA BUREAU OF MINES AND GEOLOG JAN 13 1961 Butte, Montana STATE ENGINEER WATER WELL LOG Harvey Jacobson Address Magner, Montana Owner..... Robert C. Simpson Date Started December 21, 1960 ....Equipment used... (Dug, driven, bored, or drilled) Stock Water use: Domestic Municipal Irrigation Drainage Industrial Other:..... Type seres joint Casing: Casing: Perforated or Screened: Ft.... drilled % inch holes Type of screen or perforations..... 100 Static Water level, for non-flowing well:..... ê ÷ Shut-in pressure, for flowing well:.....lb./sq. in. on:.... (date) 195 Pumping water level. bailer How tested:. 3 hours Length of test. Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off) placed three packers above the top perforations

(over)

Depti	h, feet	Description of Matanial Dullland
From	To	Description of Material Drilled
o .	6	prove ofth - three
6	55	sandy brown clay
55 56	<b>56</b> 69	rock blue shale
60	80	dork shale ( bear paw)
81	81	rock layer
490	490	dark shale rook layer
490	500	dark shale
500	510	sandstons and shale ( judith river formation)
510	520	grey shale
520	535	grey shale and sandstone
535	536-	rock layer
536	575	grey shale
575	577	rock layer
577	595	grey shale
595	397	rock layer
<del>397</del>	630	grey shale
630	640	sandatone grey shale with thin sankton layers
640 710	710	
720	745	grey shale
745	755	grey eandstone
755	780	grey shale
755 780	7990	septistons
790 800	800	grey shale
800 820	825	gray shele
855	695	sandstone
855	1375	grey shale
877	197	rock layer conditions
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File No..

T 24 N. R 28 E.M.M.

DUPLICATE

County PHILLIPS

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

HENRY	NESBIT		of	REGINA
	(Name of App	propriator)	(Address	i) (Town)
nty of	PHILLIPS		State of M	DATANA
e appropi	riated groundwa	ter according	to the Montana laws in effect	t prior to January 1, 1962, as follows:
	N			
	: : :	777	2. The beneficial use on which i	the claim is basedwatering
	}		livestock.	
		1	3. Date or approximate date of	earliest beneficial use; and how continu- t_used_in_September,_1960_
	·		and in continuous	use since that time.
		E		
			4. The amount of groundwate	er claimed (in miner's inches or gallons
				lons per minute.
		×	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
		_		igation.
	<b>16</b> T24. R.28			
ate point	of appropriati e, if possible. Ea	on	4.000000000000000000000000000000000000	**************************************
square r	e, il possible. La epresents 10 acr	es.		such water from the ground and the loca-
•			tion of each well or other me	eans of withdrawalCentrifugal
				COUR OF AIMON WATER AND THE PARTY OF THE PAR
The date	of commenceme	nt and comp	pump operated by	gasolina motor.
drawal of in Sept The depth So far as works for Curbin	groundwater	Digging co. Well  24 feet.  Lable, the type of groundwate deep.	pump operated by letion of the construction of the of wall was commerced pump was installed a e, size and depth of each well or Wood curbing, circ	gasoline motor.  The well, wells, or other works for with in :August, 1960 and finite the same time.  The same time.  The general specifications of any other cular, 9 feet in dismeter.
drawal of in Sept The depth So far as works for Curbin The estimates	groundwater 1960 of water table it may be avail the withdrawal of 18 24 fee	Digging co. Well  24 feet.  able, the type of groundwate deep.	pump operated by letion of the construction of the of wall was commerced pump was installed a e, size and depth of each well or Wood curbing, circumstalled a withdrawn each year 216,6	gasoline motor.  The well, wells, or other works for with in :August, 1960 and finite the same time.  The same time.  The general specifications of any other cular, 9 feet in dismeter.
drawal of in Sept The depth So far as works for Curbin The estimate The log of	groundwater	Digging co. Well  24 feet.  lable, the type of groundwate deep.  groundwater ountered in the state of the sta	pump operated by letion of the construction of the of wall was commerced pump was installed a e, size and depth of each well or Wood curbing, circumstalled a withdrawn each year 216,6	gasoline motor.  The well, wells, or other works for with in :August, 1960 and finite the same time.  The same time.  The general specifications of any other cular, 9 feet in dismeter.
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drawal of in Sept The depth So far as works for Curbin The estimate the log of 6.24 Such other reference signed cruned it	groundwater 1969  of water table it may be avail the withdrawal of 18 24 fee ated amount of the formations encount of the formation of the book and page appropriate.	24 feet.  24 feet.  able, the typ of groundwate et deep.  groundwater  ountered in the state a similar ne e of any cour	pump operated by  letion of the construction of the first wall was commenced pump was installed a  e, size and depth of each well  r. Wood curbing, circ  withdrawn each year. 216,6  he drilling of each well if available at bottom.  ture as may be useful in carr  try record. Well and water	gasoline motor.  The well, wells, or other works for with in :August, 1960 and finite the same time.
drawal of in Sept The depth So far as works for Curbin The log of 6. 24. Such other reference signed cruned it	groundwater	24 feet.  24 feet.  able, the typ of groundwate et deep.  groundwater  ountered in the state a similar ne e of any cour	pump operated by  letion of the construction of the first wall was commenced pump was installed a  e, size and depth of each well  r. Wood curbing, circ  withdrawn each year. 216,6  he drilling of each well if available at bottom.  ture as may be useful in carr  try record. Well and water	gasoline motor.  The well, wells, or other works for with in :August, 1960 and finite the same time.

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 the Mines and Geology, and Quadruplicate for the Appropriator.

#15610

State of Montana, County of Phillips, Film for Percord this 23.deg

0	M—Helena Independent Record		~ 21
File	No		T. 24 R. 28  County Phillips
DUP	LICATE		County Phillips
		STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER COI OFFICE OF STATE ENGINEER	DECEIVED.
		claration of Vested Groundwater Rig Under Chapter 237, Montana Session Laws, 19	
1	Janah	Jenderson, of Regions opriator, (Address)	- ANKEK
	Name of App	opriator, (Addhess) State of	(Town)
	have appropriated ground lows:	water according to the Montana laws in effect	t prior to January 1, 1962, as fol-
Г	и .	2. The beneficial use on which the	ne claim is based
-  -	9	3. Date or approximate date of eatinuous the use has been Q	rliest beneficial use; and how con-
w  -	1 2/		***************************************
-		4. The amount of groundwater cla	imed (in miner's inches or gallons
	NWSWSE 8	5. If used for irrigation, give th	e acreage and description of the
Ā	se nvne	thereof720	
		4-0-	,
an	d place of use, if possil ch small square represents	ole. 6. The means of withdrawing succession of each well or other in	means of withdrawal
7.	The date of commenceme drawal of groundwater	nt and completion of the construction of the w	ell, wells, or other works for with-
8.	The depth of water table	O L O	6 feet
9.	So far as it may be availa other works for the with	ble, the type, size and depth of each well or lrawal of groundwater	the general specifications of any
		I duy	
		<u> </u>	
10.	The estimated amount of	groundwater withdrawn each year Call	ers 35 to 40 heady
11.	0-4 Las	ountered in the drilling of each well if availab	***************************************
	4-6 Ma		
12.	reference to book and pag	a similar nature as may be useful in carrying to of any county record.	out the policy of this act, including
			() E/ A
	uat d a tr trupa en sa#t € 25	Signature of Capproprinter	Sarphine Henderson
	₩ # ₩ ** 196	V (/ 1	10 Van Hicker of black to the will be the first beginning when the St.

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.

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State of Montana,			15 m
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County of Phillips,	***	+ 1	1,19
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	7 24 28 27 Phillips
MONTANA BUREAU OF MINES AND Butte, Montana	GEOLOGY DECEIVE
WATER WELL LOG  Water Sephine Henless  Driller Ay Shares  Date Started July 7, 1961  Location: Sec. 2, T.24 R.28  Type of well (Dug, driven, bored, or drilled)  Equipment used	STATE ENGINEER  Address lains, Mont.  Date Completed My 5, 1961  4 sec. NE NE  (Churn afili, rotary, other)
Water use: Domestic Municipal Storman Other:  Casing: O st. to 300 st. Type RL  Casing: 300 st. to 905 st. Type RL	ock Irrigation
Perforated or Screened: Ft. 550 to ft. 900 Ft.	Size to ft
Static Water level, 35r non-flowing well:	feet,
12	(date) gal. per min
Length of test blue	
Remarks: (Gravel packing, cementing, packers, type of shut-off, del	

(over)

7.

		Log of Well	Fee:	County of	
	, feet	Description of Material Drilled	· Co	of Ph for R	, <b>ý</b> 5
From	T.				. 23
_0	3	Topsoil			229365
3	.3.3	fine send (dry)	<b>3</b> 9	₹ 0 ± <b>*</b>	. <b>.</b>
33	46	clay	₹ P	9. Q.	:
46	541	shale	ecorde	,	
547	581	c. R. F.		* W	
581	582	Rock 16"			- -
582	632	L.R.F.		**	<del>-</del>
632	634	Lock 20"			<u> </u>
684	640	L.R.F.			- - 1 -
641	648	the father Ro	ck 8"		_
641	161	R.F.			
661	618	This rock whelver			_
668	740	P.F.			
74 D	741	Rock 7"			
741	745	k.F.	<del></del>		_
745	746	Rock &"			
24 b	840	Ro Fo		<del></del>	
840	841	Rock 10"		· · · · · · · · · · · · · · · · · · ·	_
841	905	J.R. Fo			_
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DUPLINATE  OUT 30 See Administrate of Montana County Phillips  OUT 30 See Administrate of Montana County Phillips  Out 30 See Administrate of Montana County Phillips  (Eler. above see level of Completion of Groundwater Outer Appropriation by Means of Well)  Att. Olay  If t. Clay  Outer Appropriation by Means of Well)  Appropriation by Means of Well)  Outer Chapter 237, Montana Session Laws, 1961)  The gravel  Outer Chapter 237, Montana Session Laws, 1961)  Outer Chapter 237, Montana Chapter 248, 1966  Outer Chapter 237, Montana Chapter 248, 1966  Outer Outer Chapter 237, Montana Chapter 248, 1966  Outer Outer Chapter 237, Montana Chapter 248, 1966  Outer Chap	GW 2	ð		Approvad	Stock Form	State Publishing			
Notice of Completion of Groundwater  (Rev. abore sea level Co.   Notice of Completion of Groundwater  Appropriation by Means of Well   Appropriation by Means   Me			COMST	TVATION BOAR	U <sub>STATE</sub>	C OF MONT	ounty	Phillip	
bearing strata and height to which water rises in the well.    Compared   Com	(Elev. abovo sea leve) 4 ft. Clay 1 ft. gravel	Co Dickers Dickers Dickers	ate of late well drilled Vater U	Approp (Under Ch. Francis V. Rolly Kauf Notice of Appro Il started No well dug riven, bored or ) Juse: Domestic Industrial licate on the de	Compleriation apter 237, Jacobs man priation of v. 15.	Montana S  Montana S  Modress  Groundwat  1966 Co  Equipm (Churn other)  micipal  character	F Groupans of Groupans of Regime Regime Nalta mpleted dent Used dill, rotary Other [ Stock ]	Well  1, 1961)  2, Monta  15, 19  Nov. 15  backh  y or  Irr	ana 66 , 1966 eigation  cidifferent
Shut-in Pressure for Flowing Well.  Pumping Water Level	Trench dug 30	Stee o Dysie Hele of the Long,	earing	Size and height of Contract  24* 20 gas steel dul	prom (Feet)	To (Feet)	s in the we	ERFORATION From (Foot)	To (Foot)
small square represents 10 acres.  Show exact depth of bottom.  Driller's License Number	Sw. 1/2 Ma. Sec. 28  Indicate location place of use, if small square representations.	of well and possible. Each esents 10 acres.	Sh Pu Dia E Ho Re	mping Water Lessenge in gal. in w Tested MOL marks: (Grave tion of other	for Flowing evel	flowing we Leng cementing, use of grountinent infused for ir	ellth of Test packers, indwater if ormation, rigation)	type of sh not at we including	per minute utoff, loce ll, and an number o

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.

41586

# 16398

of Phillips, 3. 2.9. day

Luce. A. D. Yokani 2.3.0

P. v. mid duly seconded in book

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PLICATE	County Phillips
<b>∆</b> DMTNTR	STATE OF MONTANA TRATOR OF GROUNDWATER CODE TO THE WAY TO THE STATE OF
	FIGE OF STATE ENGINEER (D)
Doclaration of	of Vested Groundwater Rights 1964
	apter 237, Montana Session Laws, 1961) A 1 5 EN (1917) 3 8
-	
(ikel Perrault	, of Malta (Address) (Town)
Phillips	State of Montana
ave appropriated groundwater according	ng to the Montana laws in effect prior to January 1, 1932, as follows:
N	2. The beneficial use on which the claim is based. Domestic and
	Stock
	3. Date or approximate date of earliest beneficial use; and how contin
	one the use has been 1928 continuous
	A The amount of manufactor stated to minute taken
	4. The amount of groundwater claimed (in miner's inches or gallo per minute) 5 gal. per mine.
X	
	5. If used for irrigation, give the acreage and description of the lan
*	to which water has been applied and name of the owner there
1/4 SE Sec. 34 T. 24 R. 28	
icate point of appropriation	
l place of use, if possible. Each all square represents 10 acres.	6. The means of withdrawing such water from the ground and the lo
	tion of each well or other means of withdrawal pump
	**************************************
	4\ 21,2 <del>004,4004,600,600,600,600,600,600,600,600</del>
The date of commencement and com	pletion of the construction of the well, wells, or other works for wi
drawal of groundwaterAugust	pletion of the construction of the well, wells, or other works for wi
drawal of groundwaterAugust	pletion of the construction of the well, wells, or other works for wi
The depth of water table 26.1	pletion of the construction of the well, wells, or other works for with 1928.
The depth of water table 26.1	pletion of the construction of the well, wells, or other works for wit. 1928.  Cit.
The depth of water table 26.1	pletion of the construction of the well, wells, or other works for wit 1928  ft.  pe, size and depth of each well or the general specifications of any other Hand aug 3' x 3' round, 26 ft deep;  concrete casing
The depth of water table 26.1  So far as it may be available, the ty works for the withdrawal of groundware.	pletion of the construction of the well, wells, or other works for with 1928  ft.  pe, size and depth of each well or the general specifications of any other Hand aug 3' x 3' round, 26 ft deep;
The depth of water table 26 1 So far as it may be available, the ty works for the withdrawal of groundwa	pletion of the construction of the well, wells, or other works for with 1928.  The size and depth of each well or the general specifications of any other Hand aug 3! x 3! round, 26 ft deep;  concrete casing
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The depth of water table	pletion of the construction of the well, wells, or other works for with 1928  ft.  pe, size and depth of each well or the general specifications of any other Hand aug 3' x 3' round, 26 ft deep; concrete casing
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Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Goology, and Quadruplicate for the Appropriator.

Mise 16049 237077 Pullipa Co. Juled 12-31-63. at 11:20 H.M. Dec # 2,00. PU. Maloney Week & Rec.

GROUNDWATER INDEX
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Page / of /

County Phillipp Twp. 24n Rge. 29 C

g <sup>t</sup>				
Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
7	Honor Meshit	GW4	236543	
14	Honey Meshit	GWY	2353-3	
14	Mono Vesetle	604	235351	
14	mono Visetle	1163	235351	
16	Clarence Blunt	1959	22/635	
	Richard Pandratz	624	237067	
24	Mana Venette.	60:4	335354	
30	Mono Veneth. Richard Panknatz	60.34	237068	
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0	Approved Stock Form-State Publishing Co., Helena, Montana-39089
File No	T 24 N.R 29 E.M.M.
DUPLICATE	County PHILLIPS
ADMINISTRA OFFIC	TATE OF MONTANA ATOE OF GROUNDWATER CODE DE OF STATE ENGINEER  Vested Groundwater Rights
(Under Chapte	er 237, Montana Session Laws, 1961) STATE ENGINEER
(Name of Appropriator)	, of
nave appropriated groundwater according	to the Montana laws in effect prior to January 1, 1962, as follows:
	The beneficial use on which the claim is based
3.	Date or approximate date of earliest beneficial use; and how continuous the use has been
4.	The amount of groundwater claimed (in miner's inches or gallons per minute). 8 gallons per minute.
5SW1/4. NW. See7 T.24. R29	If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
Indicate point of appropriation and place of use, if possible. Each small square represents 10 6. acres.	The means of withdrawing such water from the ground and the location of each well or other means of withdrawal DEOP.  Eximize cylinder pump driven by electric motor.
drawal of groundwater. Construction	on of the construction of the well, wells, or other works for with n commenced in November 1957 and completed ng installation of pumping system.
8. The depth of water table890 feet	•
works for the withdrawal of groundwate 890 feet. Water withdrawn	size and depth of each well or the general specifications of any other r. Four inch steel casing to bottom of well, by drop cylinder pump driven by electric motor.
	gen 👫
	withdrawn each year1,100,000gallonsparyear
11. The log of formations encountered in the well and log is filed in o County, Montana.	ne drilling of each wall if available. Well driller's water of the Clerk and Recorder of Phillips
reference to book and page of any county	re as may be useful in carrying out the policy of this act, including y record Well driller's log is filed in office Phillips County, Montana, Exact filing informational metalgned at this time.
	Signature of Owner Henry Resolution  Date December 23, 1963
Three copies to be filed by the owner with a	the County Clerk and Recorder of the county in which the well is
	e, 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.

236543 State of Mornana, County of Phillips,

The desired applications and considered and constant to of the pair only of the

<b>\•</b>	. Approved Stock Form—State	Publishing Co., Helena, Montana—41338
3 No	Approved district the state of	T.24 N R 29 B
PLICATE		County Phillips
rmorie	STATE OF MONTANA	County
ři Š	TRATOR OF GROUNDWATER OF	M AUG 28 1963
What	of Vested Groundwal	OTATE ENIONA
MONS VESETH	, of(Address)	Regins
County of Phillips have appropriated groundwater according to the country of the	ding to the Montana laws in effec	et prior to January 1, 1962, as follows:
N		
		he claim is based
	stock watering purp	0298
	3. Date or approximate date of	earliest beneficial use; and how con
		1950
E		······································
<b>x</b>	4.	
	4. The amount of groundwater	claimed (in miner's inches or gallon
	her minute)	
s	5. If used for irrigation, give the	ne acreage and description of the land
5		
<sup>1</sup> / <sub>4</sub> Sec <b>1</b> / <sub>4</sub> T. <b>2</b> / <sub>4</sub> . R <b>29</b>	•••••	
dicate point of appropriation d place of use, if possible. ch emall square represents 10	***************************************	***************************************
ch small square represents 10	_	such water from the ground and the
res.		er means of withdrawal
	1950	well, wells, or other works for with
. The depth of water table195 £		
. So far as it may be available, the t	ype, size and depth of each well or	the general specifications of any other
works for the withdrawal of ground	waterJ.W.L.BBLCBBD	······································
***************************************	······································	
). The estimated amount of groundwa	ter withdrawn each year	***************************************
. The log of formations encountered i	in the drilling of each well if av	ailable
drift formation, shale	,rock,blueshale,roc someshalesandyshale	ky-sandy-blue-shaley-good y-rocky-shaley-sandstone

Signature of Gwner Mons Valle

Date August 23, 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.

Mise # 15419

235353

Rosalens W/Masonellacorde

34 2 00

Returns

	•		•	
<u>-                                    </u>		- Ap	proved Stock Forms-State Pul	blishing Co., Helena, Montana—41338
ile No	********************************			T. 24 R R 29 R
UPLICATE.				County Phillips
		STATE OF R	IONTANA	
			COUNDWATER COI	
5 N No.		FFICE OF STAT		ECEIVED
	Declaration	of Vested	Groundwate	r Kights of lose
	(Under Cl	apter 237, Monts	na Session Laws, 19	STATE ENGINEER
				A.
MONS	Name of Appropriator		of(Address)	Regina, (Town)
County of	Philling.	S	tate of Montana	
have approp	priated groundwater accor	ding to the Mon	ntana laws in effect p	prior to January 1, 1962, as follows:
	N			
				claim is based
			• • •	
				arliest beneficial use; and how con-
				ovember 28, 1959
	E			***************************************
<b>X</b>		4. The amoun	t of groundwater cl	aimed (in miner's inches or gallons
		per minute	) <b>50gpm</b>	
		************		***************************************
		5. If used for	irrigation, give the	acreage and description of the lands
	8	to which w		ied and name of the owner thereof
W 1/4 Sau	14 T 24 R 29	*****************		
ndicate point	of appropriation	***************************************	*******************	
ud place of	use, if possible, are represents 10	6. The mean	s of withdrawing a	ch water from the ground and the
cres,	tare represents to	location of	each well or other	means of withdrawal
		pumps		
		***************************************		
7. The date of	f commencement and com	pletion of the co	onstruction of the w	ell, wells, or other works for with
	groundwat trDeguano			d November 28, 1959
-	of water table16			
9. So far as	it may be available, the t	ype, size and de	pth of each well or th	ne general specifications of any other
works for	the withdrawal of ground	waterQYJI	wet desp, typ	e screw joint, 4 inch I
	***************			***************************************
***************				
*************	**************************************	<del></del>		,
10. The estima	ated amount of groundwa	ter withdrawn e	ach year	
11. The log of	f formations encountered	in the drilling o	f each well if avail-	ble brown clay, sand & g
beerw	w.sholerook.la	versandvs	rey shale ro	ek-layerblue-shales
stone,	easey blue shale	eandstone 		sandstone, gray shale, id blue shale
•	•	-		
12. Such other	r information of a similar	nature as may b	e useful in carrying	out the policy of this act, includin
reterence	now and have or any c		***************************************	
***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			h// ///
				IMMINA (VOXIII
			Signature of Owner.	True wy Pricent

DateAugus t 23rd, 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.

misc. \$ 15417

255351

Rosaline W. Madone go cordo

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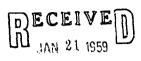
::

## MONTANA BUREAU OF MINES AND GEOLOGY ECEIVE Butte, Montana AUG 28 1963

	Owner Mons	feseth	**************	•••	STA Address	TE ENGL	NEER
	Driller. Simps:	n Drillin	ug Co.	***********	Address	Malta, Mon	tana
1	Date Started						
	Location: Sec.	14т	.24N	R.29 E 1	sec. Nh	, y 51	V KY
Type of well drille	(Dug, driven, bored	, or drilled)	Equip	ment used	(Chur	n drill, rotary, oil	ner)
Water use: Domestic		Municipal		Stock	X	Irrigation	
Industrial		Drainage		Other:	***********	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************
Casing: 0	ft. to <b>495</b>	ft.	Typ <b>e.Cra</b>	r_jeint	Size4!	in <b>ch</b> 11pew	ndperft
Casing:	11. to	ft.	Туре	**********	Size	*************************	*************************
Casing:	It. to	t.	Туре		Size		***************************************
Perforated or Screened							
Type of screen or perfo	rationsdri	lled $\xi$ in	d holes	······	***************************************		*************************
Static Water level, for t	non-flowing well	160	***************				feet.
Shut-in pressure, for fl	owing well:		1	b./sq. in. on:.		(date)	······································
Pumping water level	190	fee	t at	7	ga		*************
How tested:	baller						***************************************
Length of test	3 hor	tra .			•		***************************************
Remarks: (Gravel page	cking, cementing	g, packers,		ıt-off, depth	of shut-off	r)	
can ly orela	placed above	the perio	rations	.,,	······		·····
	**************	****************		,			
***************************************	*****************************	*******	*********			***************************************	***************************************
	•••••	************	***************		**************************************	***************************************	
***************************************	••••••	·····			************************	************************	••••••
<b>€</b> •			(over)				

Log of Well

	ı, feet	Description of Material Drilled
From	To	Double of Santonian - 1-100
0	15	prown glay
15	45	sand some gravel
45	455	bear paw shale
455	458	rouk layer
<b>158</b>	475	sandy grey shale
475	477	rook layer
477	560	blue shale ( jusith river formation)
560	640	Sandatpne
640	760	sandy blue shale
760	764	eandstone
764	800	blue shale
800	830	ea nistone
830	850	grey shale
850	860	sandstons
860	880	sible and sandstone layers
880	882	reck layer
882	895	blue shale
·	<u> </u>	
	<u> </u>	
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	<del> </del>	
	1	
	1	



T 24 R 29 16
County Phillips

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

## WATER WELL LO

<u> </u>		,		•			
<u> </u>	Owner	Armer Dust	<u></u>	***********	Address	Region M	etans.
	Driller	C. Simpsen		*****************	Address	16160,	Montana
10	Date Started	October	9, 1950		Date Com	oleted Cel	ober 23, 17
	Location: Sec.				•	-	in the second
Type of well	(Dug, driven, bore	d, or drilled)	Equipme	ent used	TOTAL (Chur	n drill, rotary,	other)
Water use: Domestic	T .	Municipal		Stock		Irrigation	
Industrial		Drainage		Other:		****************	· · · · · · · · · · · · · · · · · · ·
Casing: 0			Type server	joint	Size	A inch !	C.D.
Casing:	ft. to	ft.	Туре	***********	Size		
Casing:	ft. to	1t.	Туре	<b>230 83</b>	Size		•••••••••••••••••••••••••••••••••••••••
Perforated or Screened	d: Ft	to 1t	• • • •	-		<b>860 - 89</b> to ft	-
Type of screen or perfo	rations	dr11104.3/	16.bales		************************	********************	******************************
Static Water level, for	non-flowing well	l:		<b>9</b>			feet
Shut-in pressure, for fi	lowing well:		1b.//	sq, in. on;			************************
Pumping water level	246					(date)	
		reet				-	
How tested:	•	beers	•••••••		••••••••••	•••••	********************
Length of test			***************************************		***************************************	••••	······································
Remarks: (Gravel pa	cking, cementin	g, packers, ty	pe of shut-	off, depth	of shut-of	t)	
				••••••••	******************	*************	***************************************
***************************************	**				••••••	*********	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	******************				***************************************
		••••••••	····	····			***************************************
<b>₽ ←</b>			(over)				

Log of Well

ı, feet	Description of Material Drilled
To	
15	sores
	pert hen epric menth prome syst
197	rock layer beer poor shale
187 515	red layer andsteen
605	grey early shale
630	grey shalu sandstone
556	blue shale rock layer
100 684	sands tone
	grey sendy shale
855	sunstans and shale layers
850	rock layer existations
850	sandstane some shale
ļ	
ļ	
1	9
<u> </u>	**************************************
1	7 = 8
1	
1	
<del>'</del>	Sate of Montana, County of Phillips, Filled for accord over
<del></del>	Color Paris Color
	195 197 484 487 515 500 605 605 607 606 657 600 684 694 710

SHIN THE 1484S