82001	* **		_	-	30
			CountyPr		
	MONTANA BUREAU		-	•	EIVE
•	WATE	R WELL LOG		and well	5 1981 L
 	WAID.	K WEED LOG	<i>.</i>	STATE	ENGINEE
	Owie er Olanda Olsan	***************************************	Address	Terry, Mo	nt.
	Driller Henry I Johns	on .	Address	Terry, Mont	
	Date Started Peb. 20	1961	Date Com	pleted Feb .	1961 28 , 1969
	Location: Sec. 30	13 _R 53	1/4 sec.	ne ‡	***********************
Type of well	:		* * * * * * * * * * * * * * * * * * * *	<i>.</i>	.*
Type of weit	(Dug, driven, bored, or drilled)	Equipment used	(Churn	drill, rotary, oth	er)
Water use: Domestic	Municipal	Stoc	z X	Irrigation	
Industrial	Drainage	Other:			
Casing:	ft. to	Type Std.	, Size	2"	
Casing:	ft. to1t.	T ype	Size		***************************************
Casing:	ft. toft.	Туре	Size		
Perforated or Screene	d: Ft 610 to ft	650 Ft	640	to ft	780
Type of screen or perfo	rations Holes			*******************	
Static Water level, for	non-flowing well:	***************************************	******************************		feet.
Shut-in pressure, for f	lowing well: 64	lb./sq. in. or	3/20	/60 (date)	
Pumping water level	O feet	at 58	ga	•	
How tested: Flow	•	•••••			
Length of test	***************************************	***************************************			,,
Remarks: (Gravel pa	cking, cementing, packers, ty	pe of shut-off, dep	th of shut-off)	
Packer st at 21	0! 4 sks count packed	***************************************	******************		······································
•		,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·····
	······································	*****************************			***************************************
		***************************************		•••••••••••••••••••••••••••••••••••••••	***************************************
0 - (32) -		(over)			•

Log of Well

Denth	feet	Log of Well		
From	To	Description of Material Drilled		
_0	65	Yellow losm , yellow shale rock and gravel mixed		
65	295	shale		
295	300	sandstone		
300	330	shale		
330	335	sandståhe		
335	530	shale with intermentent coal sages		
530	531	Rock		
531	535	sandstone smedstoner		
535	610	shole		
610	650	sunitaines sandstone		
650	730	Gray shale (soft)		
730	740	Redish brown shale		
740	7402	rook		
740]	780	sandstone		
	<u> </u>			
	1			
	<u> </u>			
	1			
	<u> </u>			

G\	Approved Stock Form-State Publishing Co., H	eiena, Montana—42234,
File No	T	11/2 53°
DUPLICAT		Prairie
	STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER Declaration of Vested Groundwater Right (Under Chapter 237, Montana Session Laws, 1961)	DECEIVED DEC 18 1963 STATE ENGINEER
	Bill Haille 7	11.
1	(Address)	(Town)
County of	1/4 A = 2/4 A = 4/4 A	ary 1, 1962, as follows:
	2. The beneficial use on which the claim is base	d
	3. Date or approximate date of earliest benefit	cial use; and how continu-
w	ous the use has been	
	4. The amount of groundwater claimed (in	· ·
	per minute), 6 gallon filmin	wt
	5. If used for irrigation, give the acreage an to which water has been applied and na	d description of the lands ame of the owner thereof
NEW	Sec. 33 T./1 153	·
and place of	point of appropriation of use, if possible. Each are represents 10 acres. 6. The means of withdrawing such water from tion of each well or other means of withdrawing such water from	_
	lef flewing thing	
drawa	date of commencement and completion of the construction of the well, wells, al of groundwater.	
8. The d	depth of water table	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	ar as it may be available, the type, size and depth of each well or the general s for the withdrawal of groundwater.	
	lif flowing spring	************************************
10. The e	estimated amount of groundwater withdrawn each year 5, 256, for	o gallar
11. The le	le of formations encountered in the drilling of each well if available	
1	ne flowing spring	
	other information of a similar nature as may be useful in carrying out the poence to book and page of any county record	olicy of this act, including
	Signature of Owner Date	inde
	Date Loc	-, 16-1963
		111 /1 /1 /1

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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FILED
at 4:30_o'clock_M.

County Clerk

County Clerk

Deputy

GW 2		ITANA WATER RESOURCES BOARD	Approved Stock Form	State Publishi	ng Co., Helena, N	Iontana41933	3
File No	WOL		*	T.	13 R	53	34
DUPLI	CATE	OCT 10 1967	.· 	c	county Pr	airic	
			STATE	OF MONT		CODE	
	Top of Ground		OFFICE OF				
-	(Elev. above sea level	Notice	of Compl	etion o	f Grou	ndwate	er
,	0'- 6' topsoil \$ y	· llow qualo App	ropriation		-		
	1'-114' gravel	Sand Unde	r Chapter 237,				,
-	6'-114' gravel. 114-150' gumb	o Owner Bill	Haidle	Address	· Fallo	7, Me	nt
<u> </u>		l)willow VO .	Johnson D	4Addres	s Terr	y . M	ant.
	150'-180' Reddish 3	Date of Notice of And Stone Date well started Type of well	Appropriation of	O : Groundwa	ter		*************
	180 -211 Gray Sa	Date well started	9/23/62	Date Co	ompleted	9/26/	67
-	211-216 Gum						Tool
<u> </u>		(dug, driven, bored drilled)	or	(Churr other)	ı, drill, rotary }	or	
		Water Use: Dom		micipal 🔲	Other [=	rigation 🔲
_	ł		_	rainage 🗍	Stock [-	
-		Indicate on t strata met with in	drilling, such a	s soil, clay,	, shale, grav	el, rock or	r sand, etc.
-		Show depth at white bearing strata and					of water-
		Size of Size and	From	To			
	ł	Drilled Weight of Hole Casing	f (Feet)	(Feet)	Kind	From Prom	To
-		7" 6"1.0	6.	129'	5675	(Feel) 115	129
-		19.18 7	PH	1	1/416"	775	,
		55/8" 4" [.1	2. 115'	216	Holes	179	216
-	31995	11 #/1	IFI.	210	3/9"	,,,	
 -	N	Static Water	Level for non-f	lowing Well	/	13	feet
			sure for Flowin				
			ter Level				
<u> </u>			gal, per min. o				
-		1 1 -	Bailer			_	
					-		
	X	tic	ravel packing, on of place of	use of grou	ndwater if	not at we	ll, and any
-		7-1	her similar pe		-	_	
-	Va.1. 281	ac	res irrigated, if	used for in	rrigation)		. <i>451.1</i> 19
	W25W11 Sec. 3.4. T. Indicate location of						
-	place of use, if post small square represen	sible. Each	0.		***************************************	,	
-	Bhow exact depth of bo						*************
	216	*******		Drille	r's License		
	◆ 「 ●			1	se Zen	Joh	neson.
				Fille	r's Signatur		
T	his form to be prepared by d	riller, and three cort 2 40 be	filed by the aw	ner with th	e County C	erk and R	lecorder

This form to be prepared by driller, and three cor' > 00 be filed by the owner with the County Clerk and Recorde 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.

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Company Water Level 1997 1997 1997 all per milingan

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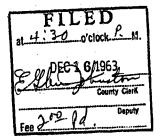
Station of County Charge of Charge

1 14

Londy of the Control

G,	Approved Stock Form-State Publishing Co., Helena, 14ontanz-42234
File No	T R 3 F
DUPLICATE	STATE OF MONTANA NISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER County DECENVE
Declaration	of Vested Groundwater Rights ATE ENGINEER
(Under	Chapter 237, Montana Session Laws, 1961)
Name of Appropriat	State of
have appropriated groundwater acco	ording to the Montana laws in effect prior to January 1, 1962, as follows:
	2. The beneficial use on which the claim is based. 3. Date or approximate date of earliest beneficial use; and how continu-
w	ous the use has been timestic since that date
x	4. The amount of groundwater claimed (in miner's inches or gallons per minute)
	5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
SW 1/4 See34 T/3-R53	
Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.	5. The means of withdrawing such water from the ground and the location of other means of withdrawal
drawal of groundwater	completion of the construction of the well, wells, or other works for with-
	47 fut.
works for the withdrawal of groun	to type, size and depth of each well or the general specifications of any other adward. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	vater withdrawn each year 350, 100 Jallan
11. The log of formations encountered	I in the drilling of each well if available
XV.	Yavidable
	lar nature as may be useful in carrying out the policy of this act, including county record
	Signature of Owner Date Use . 16-1963
Three copies to be filed by the owner w	with the County Clerk and Recorder of the county in which the well is located.
-	plicable, 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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\$2011	- Projuja
MONTANA BUREAU OF MINES ANI Butte, Montana	D GEOLOGY IE C IE II SE IE I
Butte, Montana	
WATER WELL LOG	m ti 13 lact —
Owner Charles J. Breen	STATE ENGINEER
Driller Jack E. Thiem	Address Glendive, Montana
Date Started Nov. 10 - 1960	Date Completed Nov 10 - 1960
Location: Sec. 35 T. 13 R. 53	¾ secSE
Type of weil. Bond Equipment use	Rotary
Type of well Bond Equipment use (Dug, driven, bored, or drilled)	(Churn drill, rotary, other)
Water use: Domestic Municipal Sta	ock X Irrigation
Industrial Drainage Other:	,
	rt Size 15"
•	8ize18"
Casing:ft. toft. Type	Size
Perforated or Screened: Ft29 to 1t59 Ft	
Type of screen or perforations Slots	
Static Water level, for non-flowing well:	
Shut-in pressure, for flowing well:lb./sq. in.	
Pumping water level	gai, per min
How tested: Pump	
Length of test 48 hrs.	
Remarks: (Gravel packing, cementing, packers, type of shut-off, de	epth of shut-off)
	······

(over)

Log of Well

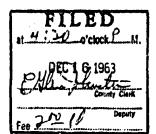
	Depth, feet Depth of Material Defiled		
Depur	ı, reet	Description of Material Drilled	
From	To		
1	14	Gumbo	
14	18	Elue Sand	
18	59	Varied gumbo, Coal, Sand	
	<u> </u>		
	<u> </u>		
	<u> </u>		
	1		
]		

, ^	Approved Stock Form-State Publishing	z Co., Helena, Montana—42234 👟 🔎
"ile No	Т	13 N B 53 E
OUPLICATE	Co	my Leave
	STATE OF MONTANA	·
ADM	INISTRATOR OF GROUNDWATER CODE	DECEIVED DEC 18 1963
	OFFICE OF STATE ENGINEER	D DEC 18 1963
Declaratio	n of Vested Groundwater Ri	ghts
(Under	Chapter 237, Montana Session Laws, 1961)	STATE ENGINEER
. Bill Hill		Fallon
(Name of Appropria	M / i	(Town)
County of have appropriated groundwater acc	State of	January 1, 1962, as follows:
N		
	2. The beneficial use on which the claim	is based
×		
	3. Date or approximate date of earliest	•
	ous the use has been	me since that
"	2 042	
	4. The amount of groundwater claimed	i (in miner's inches or gallons
· · · · · · · · · · · · · · · · · · ·	per minute)	nint
	-	
	 If used for irrigation, give the acres to which water has been applied a 	nd name of the owner thereof
-	Jugett Juden	· leon,
W 1/4 Boo35 T./3 R53		
Indicate point of appropriation and place of use, if possible. Each		
small square represents 10 scres.	The means of withdrawing such water tion of each well or other means of with the means of withdrawing such water	-
7. The date of commencement and	completion of the construction of the well,	vella, or other works for with-
Commence 1714	. comptoled 1914	,
8. The depth of water table/_0	_ / \	
	•	
So far as it may be available, the works for the withdrawal of ground	he type, size and depth of each well or the ge	neral specifications of any other
	a caring - may	13 /4 don h.
		1 .5 p
10. The estimated amount of ground	water withdrawn each year 54.7, 56	o gallous
	d in the drilling of each well if available	-
10.		
	ilar nature as may be useful in carrying out	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	4.	10-1 100
	Signature of Owner.	Dec 16, 1963
	Date	Dec 16,1763

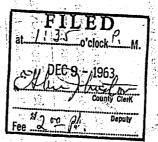
Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

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.



DUPLICATE STATE OF MONTANA ADMINISTRATOR OF COUNDWATER CODE OFFICE OF STATE ENGINEER Declaration of Vested Groundwater Rights (Under Chapter 237, Montana Session Laws, 1961) (Name) of Appropriator) County of State of. have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows: 2. The beneficial use on which the claim is based. 3. Date or approximate date of Carliest beneficial user and how continuous the use has been since a land date 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 9 9 llo a minute 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof 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 on other means of withdrawal. acres. 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. drawal of groundwater... 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. 10. The estimated amount of groundwater withdrawn each year. 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 Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is 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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Company and the control of the contr

GROUNDWATER INDEX

Page __of __

County __PRAINE ____Twp. ____TBN __Rge. __SYE _____

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
25	GAUB, HENRY	WATERWELL LOCA	81935	
30	SCHMIDT, G.R.	Gw-2	87109	
31	HAIDLE, COUTLIEB	WATER WELL LOG	8224	
34	ULRICH, GOTTLIEB	Gw-2	9165.5	
35	Craub, HENK	GW-2	87642	
				•
			<u> </u>	,
		<u> </u>	 	
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<u> </u>				
				

13-54 Lc 25 81935 County.....Products Butte, Montana MAR 20 1961 WATER WELL LOG STATE ENGINEER Owner.... Henry ... Senb Address. Fallen ... Hone Driller Henry I MENDERS Johnson Date Completed 500 6. 1959 Location: Sec ... (Churn drill, rotary, other .Equipment used. Stock X Irrigation Water use: Domestic Municipal Industrial Drainage Other:. ...ft. to.....226..... Casing:.....ft. to.....ft. Type...... Size..... Type of screen or perforations...... Static Water level, for non-flowing well: How tested: Beller Length of test_______ Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

Dept1	n, feet		
From	To	Description of Material Drilled	
	<u> </u>		
0	8	Tailer loss	
8	20	Gray shile	
20	30	Elask Poyt shale	
	 20		
3 0	65	Gray shallo	
65	92	Sendy shallo	
92	205	Coal MINE clask	
205	125	Circy shale	···
125	140	Rime shale	
140	150	Sendy shala	
150	226	Sandatone	
	 		
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GW 2 /		Approved	Stock Form—State Publishing	, , , , , , , , , , , , , , , , , , , ,
File No	***************************************	e His Gillery	T	13h B 5 HE 2 30
TRIPLI	CATE	• • •		unty Prairie
<u></u>	Top of Ground	ADMINISTR	STATE OF MONTA ATOR OF GROUNI CCE OF STATE EN	OWATER GOLDEC ! V []
-	(Elev. above sea level	.) Notice of C	ompletion of	Groundwafer 2
—	7.4 . 4	Appropri	ation by Me	anSTAFT IN ENGINEER
	0-9 in reta,		ter 237, Montana Se	
-	9-40'-carse sand	Owner G. B. Sch	mid T Address	
-	40'-110' sandstone+	Driller H. J. John	SON Address	Terry, Mont.
	Sand	Date of Notice of Appropri	iation of Groundwate	r
		Date well startedJune	L. 1,121. Date Cor	npleted June 7, 1965
-	110-130 Dark Gran	Type of well	d Equipme	nt Used Spudder
-	water so	(dug, driven, bered or drilled)	(Churn, other)	drill, rotary or
	130-131 Snale	Water Use: Domestic 🕱	Municipal 🔲	Other Irrigation
_	130-131 37ale	Industrial []	Drainage []	Stock 3
-		strata met with in drilling	, such as soil, clay, i	and thickness of the different shale, gravel, rock or sand, etc.
-		Show depth at which wate bearing strata and height	•	ekness and character of water- in the well.
L	en e e e e e e e e e e e e e e e e e e	Size of Size and	From To	
		Drilled Weight of	(Foot) (Foot)	PERFORATIONS Eind From To
-		7" 6"ID	9' 131'	#ind #row To (Foot) Size S/oTS 1/0 1/3/
+		19 16 16. Ro. Ct.		
_				
-	N T	Static Water Level for	r non-flowing Well	106 sant
		Shut-in Pressure for		
		1		at
<u> </u>				Lgar. per minute.
·	w	i		h of Test. Apprex. Lh
-		tion of pl	ace of use of groun	packers, type of shutoff, loca- dwater if not at well, and any
-			-	rmation, including number of
-	14 Sec 36 T/3 R	acres irrig		crete Pit
	Indicate location of well		<u> </u>	C. E. T. Bri F. J
-	place of use, if possible. E small square represents 10 ac		•••••••••••••••••••••••••••••••••••••••	······································
-	Show exact depth of bottom.	***************************************	•	
اسمدا	- Santa Cando debar or nessenti		Driller Driller	's License Number
			7/	m Il
			Driller	's Signature

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

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

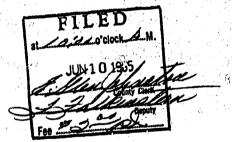
Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

w 2	Appropred Stock Fo	crm—Sià e Publishing Co./Releas, Maniar 1991. T. 12 B 5 U 6
Top of Ground	ADMINISTRATOR OFFICE O	E OF MONTANA DECEMBER OF GROWING AND LONG GROWING AND LON
(Bler, above see level	Annvanriation	n by MeanSlaff Well No. 1, Montana Sosson Laws, 1961)
	Owner G. R. Christ. Drille H.L. Deniso.	And the state of t
	7y Type of well Des //e / (dug, driven, bored or / / / / / / / / / / / / / / / / / /	(Court, drilly other)
ISP-BI SORIE	Tes Indicate on the diagram	
	The Property of the Property o	
	Static, Water Level, for non-	
	Shut-in Pressure for Flow Pumping Water Level	ing Welling Cost at Jan gal per minu
	How Tested Balls Remarks: (Gravel packing tion of place of	g, comenting packers, type of shutoff to use of groundwater if not at well, and a portinent information, including number.
Indicate location of well place of use, if possible,	and Each	if used for irrigation) Con Crete Pit
small square represents 10 Show exact depth of bottom.	acres.	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 Becorder 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 Becorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.



Q	2	2	4

	T	13	R 54	31
County Project				

MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana

WATER WELL LOG

STATE ENGINEER

	Owner Gott	lieb Haidl	<u> </u>	************************	Address	Terry, Mont	tana
	DrillerHani	y I. Johns	on	*********************	Address	Terry, M	ontana.
	Date Started	June 5, 19	61		Date Com	pleted June	9, 1961
						Y	
				,,			**********************
Type of wellBrill	ed (Dug, driven, bore	d, or drilled)	Equ	pment used	Cable (Chur	Tool a drill, rotary, oth	
Water use: Domestic		Municipal		Stock		Irrigation	
Industrial		Drainage		Other:	**********	*******************	***************************************
Casing:	ft. to 118	ft.	Туре	Std	Size	6 in.	********************
Casing:	ft. to	ft.	Туре		Size	******************************	······································
Casing:	ft. to	ft.	Туре	*******************	Size	*************	70°00,; 100°1
Perforated or Screene	d: Ft104	to ft	118	Ft		to ft	**************
Type of screen or perfo	rations Slot	s and Holas	ļ		**************	***************************************	************************
Static Water level, for	non-flowing wel	1: 100	**********		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		feet.
Shut-in pressure, for fi	lowing well:		••••••••••	.lb./sq. in. on:			······································
Pumping water level							
How tested:					_	-	
Length of test 3 hr							

Remarks: (Gravel pa			••	,		•	
•							
4.4.4							
***************************************						***************************************	****************

(over)

Log of Well

Depth	ı, feet	The contraction of Maximum Phillips
From	·fo	Description of Material Drilled
0	14 in	Top Soil
1	110	Sand
110	122	Shale
122	125	Coal
		
	<u> </u>	
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DUPLICATE

File No

LOG

County PRATREE

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE

Top of Ground	STATE WATER CURRENTUM BUARD
(Elev. above sea level)	Notice of Completion of Groundwate
f - 6 Erm. sandy soil 6 - 30 Sand & gravet	Appropriation by Means of Well

- 162 Coal & Stringers of Under Chapter 237 Montana Session Laws, 1961, as amended)

gumbe
295 AAAA Blu gumbeOwner.Gettlieb Wirleb Address Fallen, Mr.
with stringers of
Coal Driller.Joe Johnson Drig. Address Terry, Mt.

395 - 298 Rock Date of Notice of appropriation of groundwater... 298 - 310 Hard gumbe 310

- 315 soft rock 315 - 360 360 - 363 Date well started 11/4/69 Date completed 11/7/69 Blu gumbe Rock

Equipment used Red new (Chara drill, rotary or other) Type of well Dzilled (Dug, driven, bored or drilled) 363 455 Water sand & stringers of - Water use: Domestic | Municipal | Stock D Irrigation gunbo

Industrial Drainage Other 🗍 455 - 458 Rock 458 - 565 Blu & gray gumbe. Indicate on the diagram the character and thickness of the different strata set. Show met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show the set of the

stringera Ma & gray gumbe 715 - 790PERFORATIONS with stringers To (Fuel) of water sand 790 - 805 Rock 4 5/800 18.97#/F 8 3/44 35 805 - 910 Blu, gray, brn. gumbe - 465 Ertesian sand - 994 Guabe & stringers 994 985

sand,

2" ID Holes 3,74/11

994 T.D.

		 4		
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	0	 		
		 	!	R

Static Water Level for non-flowing well

Shut-in Pressure for Flowing Well...254...... Pumping Water Level..... ____feetgal. per minute.

Discharge in gal. per min. of flowing well -25-zpm

How Tested... Open ..Fl.ow..... Length of Test...48..... Remarks: (Gravel packing, cementing, packers, type of shutoff). Packer

Sh 1/20 bec. 3.4 T./3 R. 20 Indicate location of well and place of use, if possible. Each at 500' and cemented with 15 sacks of cement. small square represents 40 acres.

.. (Continue on reverse side) USE-If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addi-

Show exact depth of bottom.

retained by driller.

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

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

Driller's License Number

Doner's Signature

FILED M. Nov 17 1969

Control of the second s	966	The state of the s	Mary Mary Mary 1974	Company and the second	
Collected by	Water Resol	Water Resources Board			
Date Collected	12-2-69	12-2-69			
Date Received	not stated not stated	not stated			
Analysis Reported	12-17-69	12-17-69			
CHEMICAL ANALYSIS (Milligram	s per liter. Divi	(Milligrams per liter. Divide by 17.1 to convert to grains per gallon.)	vert to grains pe	s gallon.)	
los (Fe)	0.16	to*0			
Calcium (Ca)	•	4			

Magnesium (Mg)

Chloride (CI)

Sulphace radical (SO 4)

102

Sodium and Portassium Calc. (Na·K)

Carbonate radical (O3)

Bicarbonate radical (HCO3)

289

1,537

332

299

28

+1655 1655

MONTANA STATE DEPARTMENT OF HEALTH

REPORT OF CHEMICAL ANALYSIS OF WATER Fallor

ATER Fallon, Montana
City of Prairie County

LAB NO.	MAP LOCA	ATION	· SPE	CIFIC LOCAT	ION	SOURCE
438	T 13N #-R-54E, Se			Well 994 :		Stock Well
439	T 12N - R 54E, Se	ction 2	Home	well360 fe	et deep	Home well
		· · · · · · · · · · · · · · · · · · ·	<u> </u>			
Laboratory No.	,	438	439			
Collected by		Water Reso	rces Board			
Date Collected		12-2-69	12-2-69			
Date Received		not stated	not stated			•
Analysis Reporte	d	12-17-69	12-17-69			
CHEMICAL ANA	LYSIS (Milligram	s per liter. Divi	de by 17.1 to co	nvert to grains p	er gallon.)	
lron (Fe)		0.16	0.01			
Calcium (Ca)		4	4		<u> </u>	<u> </u>
Magnesium (Mg)	10	10			
Sodium and Potassium Calc.	(Na-K)	332 -	599			
Carbonate radica	1 (003)	28	18			
Bicarbonate radio	cal (HCO 3)	289	1,537			
Sulphate radical	(SO ₄)	102	29			
Chloride (Cl)	·	37	24			
Fluorine (F)		2.40 -02.4	2.64			
Nitrates (NO ₃)		0.00	0			
The state of the s						
Total Hardness	(as CaCO ₃)	50	50			
Total Dissolved	Solids	862	1,590	1		

CHEMICAL ANALYSIS

Two samples of water for mineral analyses have been submitted to the State Department of Health water laboratory by Ronald J. Guse, Groundwater Coordinator, Water Resources Board, Helena, Montana. These samples are described as representing the water of a stock well, 994 feet deep (CW 438) and a home well, 360 feet deep (CW 439) on Cottlieb Wrich property in Prairie County Gottlieb Ulrich near Falion, Montana.

The results of our analyses are recorded on the reverse side of this sheet, the figures representing milligrams per liter, which are equivalent to parts per million (parts of materials per million parts of water). Parts per million may be converted to grains per gallon by dividing by 17.1.

The total mineral Games t of the water from the stock well as determined by the total dissolved soils. is 860 milligrams per liter, a content which is moderately high and classifies the water as fair (between 500 and 1,200 milligrams per liter) from the standpoint of drinking. Waters in this class are described as having no distinct taste as a rule. They can usually be recommended for drinking. The water in the house well has a total dissolved solids content of 1,590 milligrams per liter, a content which is high and classifies the water as acceptable (between 1,200 and 2,000 milligrams per liter). Waters in this class are described as possibly having a slight taste. They are drinkable, however, and only a few persons offer objections to them. People using waters under this class report no objectionable harmful effects as a rule.

The water from both wells has a total hardness, calculated as calcium carbonate, of 50 milligrams per liter, or approximately 3 grains per gallon. Such a hardness classifies the water as relatively soft (between 0 and 5 grains per gallon). This hardness will not be noticeable where ordinary soap is used (will lather freely) and scale will not be formed where the water is heated as in a tea kettle or in a steam-raising plant.

The fluoride content of 2.4 milligrams per liter in the stock well and 2.64 in the house well exceeds recommended 1.0 to 1.5 milligrams per liter fluoride limit which prevents dental caries. Excessive fluoride in drinking water supplies may produce objectionable fluorosis (mottling of the teeth) which increases with increasing fluoride contents above 1.5 milligrams per liter.

The bicarbonate content is 1,537 milligrams per liter from the home well. From observations of the properties and effects of waters of known mineral content, it seems safe to assert that waters containing more than 700 milligrams per liter bicarbonate would be distasteful to some people.

This analysis gives information relative to the chemical quality of the water and has no significance so far as the sanitary features are concerned.

MONTANA WATER RESOURCES BOARD

RECEIVED

DEC 19 1969

Respectfully submitted,

a W Celabron A. W. Clarkson, P.E., Chief

Water Section

Division of Environmental Sanitation

AWC:sdd

Reports to: Ronald Guse, Groundwater Coordinator, Water Resources Board S. A. Chilian, Jr., M.D., County Health Officer, Terry

GW 2 CONS	ERVATION BOARD	Арргоч	red Stock Form	-State Publishi	ng Co., Helena, N	fontana—4193	
Tilla Ma		•		T.	3-13-R	154É	35
DUPLICATE DIAG 2	McDermott			ď	ountyP		
R. a	McNully		STATE	OF MONT			
	Morton			OF GROUN STATE E	DWATER NGINEER	CODE	
Top of Ground						!	
(Elev. above sea level?.3)	ZU HAPPON. N						9r
_ 0-3' topsoil		Approp	-				et.
_ 3'-so' Sand & C	.lay	•				,	
50'-60' Codl		Henry G					
160'- 130' Blue Si	lak Driller	Joe Joi	hnson	Address	Terry	mon	<u> </u>
130'- 200' Sand		otice of Appro	priation of	Groundwa	ter		
200'- 465' Shale		startedDec	_			Pec. 14	1965
- 465' - 468' Rock		rell Drill					
- 468'-530' Shale	Type of w (dug, dri	ven, bored or	<u> </u>	Equipn: (Chvrn)	ient Used , drill, rotary	or	·/
	drilled)			other)			
530'-535' Rock	Water Us	e: Domestic Industrial	_	nicipal 🔲	Other [Stock 2	-	igation 🔲
535'- 560'- Sand 560'- 574'- Coa	/ ==== 1.11		_			_	3100
- 360 - 374 - Shall	strata me	cate on the di t with in drilli					
- 621' - 624' Rock	Show dep	th at which wa trata and heigh					of water-
- 624 - 744 Shake							
- 744' - 746' Coal	Bize of Drilled	Size and Weight of	From (Feet)	To (Feet)	[RFORATION	
- 746'- 875' Shale	4/2	Casing	o'	1079	Kind Size	(Feet)	To (Feet)
875'-877' Rock	Frm 0'- 330'	3.7 #/Ft.		,,,,,			
877'-881' Shale	37/6"					995'	1079'
881' - 980' Waters	14330'- 1100'			1	Holes	//-	
- 986' - 1016' Shale & Tuck					-78		~ _
1016 - 1100' Water Sand		a Water Level	for non fl	omina Wall			foot
		ic Water Level		-			
<u> </u>	Shu	t-in Pressure f	or Flowing	g Well	E E.O.2.		***************************************
	Pum	iping Water Le	vel	fe	et at	gal. 1	er minute.
	Disc	harge in gal. p	er min. of	flowing w	el1	9. <i>P.M</i> .	
_ "	E How	Tested	low	Leng	th of Test.	3 da	<u> </u>
		arks: (Gravel					
		tion of	place of u	se of grou	ndwater if	not at wel	l, and any
			-		ormation, i	_	
35					rigation)		
MF.1/4 Sec. 35 T./. Indicate location of	3. R.5.4/ well and	sing o	17 300	2+ fT.			
place of use, if possit	le. Each	***************************************	•••••		***************************************		
small square represents	10 acres.	***********	••••				
Show exact depth of bott	om.				المرسحاد		
				Drille	's License	Number	
					dose -	tem (Edrison
				Drille	r's Signatur	e	ar antaminini atrini 🎔

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. μ_{011} o

at // o'clock A.M.

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GROUNDWATER INDEX				Page _	of
County PRAIRIE	Twp	131/	Rge. <u>≤;5 €</u>		

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks	
25	NORTHERM PACIFIC RAYLWAY CO.	GW-4	85294]
27	BUREAU OF LAND MANAGEMENT	GW-1	94157		
30	OPP, JOHN	C+W-4	84021	<u> </u>	
31	BUREAUGE LAND MANAGEMENT	G-M-1	92407		
31	BUREAU OF LAND MANAGEMENT	C+W-1	93586		1
.36	PRAIRIE COUNTY GRAZING DIST.	Gw-2	87168		
27	B.L.M.	Gw-2	94920	DAISY WELL	4
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File 1	No	T 15N R 55E
DUPI	LICATE	County Prairie
	OFF — Declaration o	RATOR OF GROUNDWATER CODE DECEMBER FICE OF STATE ENGINEER F Vested Groundwater Rights pter 237, Montana Session Laws, 1961) STATE ENGINEER
1. N	Orthern Pacific Railway Co (Name of Appropriator)	ompany of N.P.Bldg St. Paul, Minn. (Address) (Town)
Ç	County of Rameoy	State of Minnesota
D		ing to the Montana laws in effect prior to January 1, 1962, as follows:
	N .	2. The beneficial use on which the claim is based Furnishing water for livestock.
-		3. Date or approximate date of earliest beneficial use; and how e tinuous the use has been 1952.
w	B	
-		4. The amount of groundwater claimed (in miner's inches or gall per minute). 26 gallons per minute.
-		E Te unal feu invitation with Abanana and Janatin A. A. I.
L	<u> </u>	 If used for irrigation, give the acreage and description of the la to which water has been applied and name of the owner ther None.
SE:	.¼ Se 25 T 13N R.55E	None.
Indic	cate point of appropriation	
and Each acres	place of use, if possible. h small square represents 10 s.	6. The means of withdrawing such water from the ground and location of each well or other means of withdrawal
7.	The date of commencement and comple	etion of the construction of the well, wells, or other works for w
	drawal of groundwater.	
8.	The depth of water table 60 fee	t.a
9.	So far as it may be available, the typ works for the withdrawal of groundway	e, size and depth of each well or the general specifications of any of the size of the siz

		withdrawn each year
8	2-8' sand and clay: 8-46'	the drilling of each well if availableQ=2! black sandy loblue_clay: 46-88! water sand, some wet, some
		ture as may be useful in carrying out the policy of this act, inclu-

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.

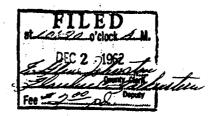
Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator. 9382

85294 Harmon and Sta

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ov		Approved Stock Form	State Publishing Co., Helena, Montana-18687
File No		11	T. 13 N. R. 5-5- E
DUPLICATE	\ ¹ 2 \		County Prairie
	(STATE OF MONTANA STRATOR OF GROUNDWAT OFFICE OF STATE ENGINE	ER
	Declaration (Under C	of Vested Ground	water Rights ATE ENGINEER
1 91	n Opp	, of	iress) _ ('fown)
County of.	Brasse	State of W	maria
have appro	priated groundwater acco	ording to the Montana laws in	reffect prior to January 1, 1962, as follows:
		2. The beneficial use on w	hich the claim is based
		tinuous the use has be-	ate of earliest beneficial use; and how con-
w	E	every day	
		4. The amount of grounds	water claimed (in miner's inches or gallons Galo See Munite
		5. If used for irrigation, g	ive the acreage and description of the lands en applied and name of the owner thereof
		م الم	
	e.30. T.13 R.55	***************************************	
and place of Each small squacres.	use, if possible. uare represents 10	location of each well or	wing such water from the ground and the rother means of withdrawal
7. The date of	of commencement and congroundwater	npletion of the construction of	the well, wells, or other works for with
		20	
9. So far as	it may be available, the	type, size and depth of each w	ell or the general specifications of any other Jin. galv. Pige

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10. The estimate	ated amount of groundwa	ater withdrawn each year	400,000 Tala.
3.30.65	T. Class & Bank. L.	5to.72. Carel 22 11. 2.	if available O. la. 3. Suface Soil
2720	309 45 11538	Th. 351 1 358 to 39	To you flu Shele 4 2 K G 4 5 0
12. Such other reference	r information of a similar	nature as may be useful in co	owater Soul 1160 to 1180 the Stale arrying out the policy of this act, including
		Signature of	Owner John Opp Date Dec, 18, 1962
Three copies t	to be filed by the owner		ecorder of the county in which the well is
	all questions. If not appl	icable, so state, otherwise the	form will be returned.
Original to th	e County Clerk and Reco	order; duplicate to the State I	Engineer; Triplicate to the Montana Bureau
of Mines and	Geology, and Quadruplica	te for the Appropriator.	2834



•				
192-1500-	G₩	1	Revised	1969
192-1500-	-10/C			

PERMIT REQUESTEL

Prairie County...

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE MONTANA WATER RESOURCES BOARD

LECEIVED

NOTICE OF APPROPRIATION OF GROUNDWATER

(Under Chapter 237, Montana Session Laws, 1961, as amended) 007 5 1070

After filing a notice of appropriation, in order to acquire a right based thereon, the person must, within ninety (90) days, commence actual excavation and diligently prosecute construction of a well and, upon its completion, file a notice of completion with the County Clerk of the county in which the appropriation is located.

inswer all questions. If not ap	plicable, so state, otherwi	se me form may be resorted.	P
Bureau of Land Manage	mest	of Bex 940, Miles City, Mentana	1
(Name of Appropriator)		(Address) (Town)	7
unty of Ouster		Meatena , intend to appropria	5
undwater in accordance with	Chapter 237, Montana S	ession Laws of 1961.	K
e beneficial use to which wa	ater is to be applied is	Stockmeter	
			ا اسرا
	•	ands to be beselfied, if for irrigation)	
		III	7
3 - 5 gallons per m	inute - 300,000 gal	lons maximum	•••
e estimated amount of grou	undwater to be used an	nually	
		April 20 - Movember 20	

ne probable or intended date	of first beneficial use	Merrocker 1, 1970	***
ne probable or intended date	of commencement and	completion of the well* or wells*	
Nevember	1, 1970		
Movember ne location, type, size and de Section 31, SELMER - 6 be upod on this well	pth of well or wells cont	templated T. 13 M., R. 35 E., 30 ft. in depth, electricity will	
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Bevenber ne location, type, size and de Section 31, SECTE - 6 be used on this well ne probable or estimated dep ne name, address, and license live such other similar information For Administrator File Colonse	pth of well or wells cont hele, estimated 2 th of the water-table or a number of the driller estion as may be useful in	remplated T. 13 N., R. 35 R., 250 ft. in depth, electricity will artesian aquifer	

FILED

3.35 o'clock P.M.

OCT 2-1970

County Clark

Design

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CONCESSION CONTRACTOR OF CONTRACTOR CONTRACT

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PERIOTE RECOUESTED

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

Dafsy Well - #6557

NOTICE OF APPROPRIATION OF GROUNDWATER (Under Chapter 237, Montana Session Lawa, 1961, as amended)

After filing a notice of appropriation, in order to acquire a right based thereon, the person must, within ninety (90) days, commence actual excavation and diligently prosecute construction of a well and, upon its completion, file a notice of completion with the County Clerk of the county in which the appropriation is located.

Three copies of this notice are to be filed 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 may be returned.

	1, Burests of Land Henegement of Miles City Mortane (Name et Appropriator) (Address) (Town)
	County of Prairie , State of Montana , Intend to appropriate goundwater in accordance with Chapter 237, Montana Session Laws of 1961.
	•
2.	The beneficial use to which water is to be applied is If westock water - approx. 200 h
	(describe lands to be benefited, if for irrigation)
3.	The rate of use in gallons per minute or miner's inches of groundwater claimed
	3 - 5 gallons per minute
	The estimated amount of groundwater to be used annually
4.	The annual period (inclusive dates) of intended use May 1 to November 30
5.	The probable or intended date of first beneficial useSpfing.of 1973
6.	The probable or intended date of commencement and completion of the well* or wells*
	Spring of 1973
7.	The location, type, size and depth of well or wells contemplated
••	% 13 N., R. 55 E., Sec. 27, Syldle's - pumped well. 6" x 250' deep
8.	The probable or estimated depth of the water-table or artesian equifer
9.	The name, address, and license number of the driller engaged (not known at present)
10.	Give such other similar information as may be useful in carrying out the policy of this act An annual withdrawal of approximately 135,000 gallons should be made
سا جب	The first of the f
c.F	RESTANTED
/	W.R.D. Administrator
1	W.R.D., Administrator
1	For Administrator's Use
1	W.R.D., Administrator
	For Administrator's Use
	For Administrator's Use File 94157 November 3,1922 -10:30 a.m.: SW. 4 ME. 4 Sec. 27
	For Administrator's Use File 94157 November 3,1922 -10:30 a.m. PERMIT PEOMESTED
	For Administrator's Use File 94159 November 3,1922 -10:30 aum: SW.4 NE 14 Sec. 27

COMPTO CONTRACTOR OF COMPTO CONTRACTOR CONTR

ADMINISTRATED ALONG TO SOLAR STREET, COLL MALE OF MONTHS

ROBLETS BANK BROWNING CO.

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STATE OF MONTANA MIRID. Administrator DRILLER'S LOG
ADMINISTRATOR OF GROUNDWATER CODE FOR FINANCIAL STATE OF MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER JUN 2 1973
APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1962

MONTANA DEPARTMENT OF MAINTAIN OF WHILE WATER TO MAINTAIN TO MAINTAIN DEPARTMENT OF MAINTAIN OF WELL
Developed after January 1, 1962

Developed after January 1, 1962 Profilence And	CONCEDITION
(Under Chapter 237 Montana Session Laws, 1961, as amended)	Top of Ground (Elev. above sea level)
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	From To (Fest)
which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the	O10_Brown_Soud
form may be returned. Dalay Well.	10 45 Banen, Sond
Owner Bureau of Land Management For Administrator's Use	45 55 SAUL
Address Miles City, Mantana File 94920	55 85 Ceny sandstone
June 25, 1973	85 105 Gray clay with Layers at
Date well started 5/29/73 GW 1 9:45 A: A.	105 175 Cen andstone
completed 6/5/73	115 117 Sandreek
	A 10 M A81
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	117 130 Gerry sondstone
Equipment used Rir Rotary (Chura drill, rotary or other)	130 165 Grai sandstone
Water Use: Domestic ☐ Municipal ☐ Stock ☎ Irrigation ☐	165 175 Green & gray clay
Industrial Drainage Other * Garden/Lawn *	175 205 Gray and stone
*Describe	205 235 Gray clay
USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block	235 295 Grav. & Islue anniatore
and Addition).	79
ESTIMATED ANNUAL WITHDRAWAL	
Size of Size and From To PERFORATIONS	
Hole of Casing Kind From To	
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16.97# +7 263 slots 221 283 1/8 X 6"	1000
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Static water level 201	*
gallons per minute	3,
measure 000000000000000000000000000000000000	9
*Measured from ground level.	
Well developed by the & Baller for	
Power Pump	
s packers, type of shutoff)	
SD) DE 27	
13h¼¼ \$950	
s w	
INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.	
Driller's Signature Jose Jean Johnson	
Driller's Address of Johnson Drilling, Terry, Montana	
Driller's Address	
	Show exact depth of bottom

SALES SIER

(1) N. SHATHON TO JIMIN N. Y. SERRHEIN SEO TO FORWARDINGS. CALOR PERSONAL IN LAW MAKINGS.

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STATE OF MONTANA MONTANA WATER DESCRIPTION ADMINISTRATOR OF GROUNDWATER CODE TO LECT

DRILLER'S LOG indicate the character, color, thickness of strata such as soil, clay, sand, MONTANA WATER RESOURCES BOARD

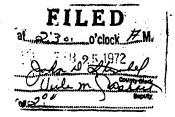
NOTICE OF COMPLETION OF GROUNDWATER EB 2 8 1972 gravel, shale, sandstone, etc. Show depth at which water is found and APPROPRIATION BY MEANS OF WELL STATEMENT OF NATEIGHT to which water rises in well.

	Deve	oloped aff	er Januar	y 1, 1962		We11/4#63		_		
(Under C	hapter 237	Montana	Session	Laws, 1961,	. •	_		Ground	(Elev. above sea level)	
by the own	ner with th	e County	Clerk and	d three co d Recorder	in the cour	filed	From (Feet)	To (Feet)		
				e retained			Q.	30_	Bandy Boil	
Please answer all questions. If not applicable, so state, otherwise the form may be returned.							<u>30</u>	35 41	Outek sand Gravel & Sand	
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Owner 🎮	reau of 1	and Mar	agement.	For Admi	nistrator's U		142_	160.	_amdamd_	
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com	pleted11			·	·-					
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Edulpment	usedA	ramore/	. (C	hum drill, rotar	y or other)					
				Stock E				 -		
Ind	ustrial 📋	Drainage	e [7] Ot	her □*	Garden/Lav	עת 🗀				
	,			_		. —			<u></u>	
*Describe				*************		*****				
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				or other da						
and A	Addition)		•••••••							
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Driller's Si	OF BUILDS	1512	1,000	· >#///						
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LICENSE NO. 154

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File No.	•			-	T	13	R <i>クソン</i>	26
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	(Elev. above sea level) l	Notice of Approp	Compleriation	etion o	f Grou	ndwai Weil	er IEER
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-		Drilled Hole	Weight of Casing	(Feet)	(Feet)	Kind Size	From	To
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_	Indicate location of well place of use, if possible. small square represents 10	l and Each				•••••		······································
-	Show exact depth of bottom.		***************************************	****************	•••••••		************	••••••••••••
132	SHOW GERCH GEPHE (M. BOLKOM.				Drille	'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.

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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GROUNDWATER INDEX			Pageof
County PRAIRIE	Twp.	 Rge.	495

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Sec.	Name of Appropriator	Type of Form	County File No.	Remarks	
35	BUXEAU OF LAND MANACREMENT	ow-4	84285		
26	11	G-W-2	94953	CLART WELL	
			 		
					
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County Prairie.....

DRILLER'S LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE: COMMONTANA WATER RESOURCES BOARD
RESOURCES AND CO

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

7- 4	Indicate	the	character	r, color,	TRICK-
COMOERVS	ness of	strata	such as	soil, clay, ne. etc.	sand,
	gravel.	shale,	sandsto	ne, etc.	Show
	depth a	t whi	ch water	is foun	d and
				r rises in	
		•			

(Under (Chapter 237	Montena	Session 1	aws, 1961, as	amende	d)	Top of	Ground	(Elev. above sea level)	
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ina	lustrial 📋	Drainage	Ot/	her ∐" Gard	ien/Lawı	ו םי	-600		Sandstone with stringers	σZ
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County Prairie

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

Declaration of Vexted Groundwater Rights

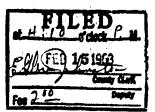
(Under Chapter 237, Montana Session Laws, 1961)

(Name of Appropriator)	, of Box 960, Miles City (Address) (Town) State of Mentena ording to the Montana laws in effect prior to January 1, 1962, as fol- 2. The beneficial use on which the claim is based Livestock water
(Name of Appropriator) County of	(Address) (Town) State of Mentena rding to the Montana laws in effect prior to January 1, 1962, as fol- 2. The beneficial use on which the claim is based
(Name of Appropriator) County of	(Address) (Town) State of Mentena rding to the Montana laws in effect prior to January 1, 1962, as fol- 2. The beneficial use on which the claim is based
have appropriated groundwater acco lows:	2. The beneficial use on which the claim is based
have appropriated groundwater acco lows:	2. The beneficial use on which the claim is based
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++++	PIANTOCE ARCEL
	3. Date or approximate date of earliest beneficial use; and how con-
	tinuous the use has been 1945 - continuous
	tillaous tile use lias beeli
<u> </u>	
	4. The amount of groundwater claimed (in miner's inches or gallons
	per minute) 3 sal/min.
1	•
	The state of the s
s	If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner
	thereof
1488 Sec.35 T12.FR.498	***************************************
licate point of appropriation	**************************************
i place of use, if possible.	6. The means of withdrawing such water from the ground and the
ch small square represents 10	_
es.	location of each well or other means of withdrawal
The depth of water table	pe, size and depth of each well or the general specifications of any roundwater 590 deep, flaving well
The estimated amount of groundwa The log of formations encountered in	ter withdrawn each year
Such other information of a similar reference to book and page of any c	nature as may be useful in carrying out the policy of this act, including
Such other information of a similar reference to book and page of any c	nature as may be useful in carrying out the policy of this act, including ounty record

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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GROUNDWATER INDEX

Page __of __

County __PRASESE ___ Twp. ___/2N __Rge. __SeE ____

Sec. __Name of Appropriator __Type of Form __File No. ____ Remarks

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks	
5	IHAUGHIAN LIVESTOCK CO.	CTW-4	\$5361		_
/3	BUFFALO RAPIDS PROJECT BOARD OF CONTROL	CrW-4	85034		
/3	DOLATTA, ADRIAN	WATERWELL LOCT	81950		
/3	UNITED STATES OF AMERICA	6	85034	SAME FILENO. HE ABOVE,	
22	ł	WATER WELL LOG	NO RECORD		
22	THOMASON, LILLIE M.	GW-4	85436		
24	BAN IVAN J.	<u>G-w-4</u>	85286		
24	ROUS, CHARLES J.	Gw-4	85362		
24	REOS CHARLIE	WATER WELL LOG	\$1937	MAY BE SAME WELL AS ABOVE #24.	
26	DOLATTA, ADRIAN	GW-2	92247		_
26	THOMASON, E.C.	C+m - 5-	88286		
32	BUREAU OF LAND MANAGEMENT	G-W-4	84301		
34	JENS, LESTER	Crw-2	91458		
35	JENS, LESTER	Gw.=	87905		
35	NORTHERN PACIFIC RAILWAY CO.	Crw-Z	92162		
31	B.L.m.	GW-2	94951	TRAIN WELL	
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9	B. M.	GW-J	94950	Him Action	\exists
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9	Billi	Gw-J	94734	Hines hatesing	
9	Bi Mi	Gw-4	74754	Hims hatesing	
9	8:11	Gw -J	74754	Him hatesing	
9	8:11	Gw-4	74754	Hines Rates in 1	
9	8:11	Gw Z	99753	Hines hatesing	
9	B: 111	Gw Z	99752	Hims hatesing	
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	8:11	6w 4	94753	Horas hates in t	
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County Prairie

DRILLER'S LOG

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE MONTANA WATER RESOURCES BOARD

Developed after January 1, 1962

9 19/3 Indicate the character, color, thick-MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER

PERALLEL OF LIGHT Such as soil, clay, sand, ness of strate such as soil, clay, sand, ness of

(Under C	hapter 237	Montana	Session L	aws, 1961,	as amend	ied)	Top of	Ground	(Eiev. above sea level)
This form	to be prep	ared by	driller, and	d three co	pies to be	filed	From (Feet)	To (Feet)	
which the	well is loca	ited, last	copy to b	e retained	by driller.		0.	10_	Bearn Sand
Please ansy form may I	ver all ques be returned	itions. It	not applica	ible, so stat	e, otherwis	se the	10	20	Sand & Grainel
res Artes	ian ou of Can	d Manag					20	30	Clay &n Coal
	. •		_		nistrator's L	Jse		، هن کله هم	
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Type of we	oll	illed			٠, -	,	_185	195	
			(Du _i	, driven, bored	or drilled)	· -	195	215	Chan Cian
Equipment	used f.	M. KOKON	(C)	hura drill, rotar;	y or other)	***********			
Water Use:	Domestic		inicipal 🔲	Stock 🗲] Irrigati	ion 🔲	. 215	_225.	Blue-gray saaps sae
Inde	ustrial 🔲	Dreinage	e 🔲 Otl	ner 🗆 *	Garden/Lav	wn 🗆	225	255	Grav. Chay.
*Describe	*************			************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		255	270	
USE: If us	ed for irrig	gation, in	dustrial, d	irainage or	other. Ex	xplain,	270	285	Gran Clan
	Addition)				• •		285	280	Brown Rock
j.									
	ANNUAL						<u>-289</u> . 300		Sandstane
Size of Drilled Hole	Size and Weight of Casing	From (Feet)	(Feet)		ERFORATION	vs	330	340	Clay
5 7/8"	4" In	0	285	Kind Size R O	n From (Feet)	To (Feat)	<u>340</u> 370		Sandstane.
J 170	10.89#	"	205	" "	" -		480	500	Sandatane
4%"	TX	ł	}		}		_500. _500		Clay Sandstana
Ť	2" 33					1_	530	620	Clay & stringers of Back
	3.7#	270	900	Slots 1/8 X 6"	620 780	670 860	620	670	Sandstane
		;		/0 A 0"	7011	900	<u>670</u> 730		Clay. Sandstane
	N				. 0		-730 -760		Biack Shale
	1		Stati	ic water lev	el	2ft.*	770	8/0	Sandstone with Park
			at		galions	per minute,	870	900	Dank Shale
	x	1 1			h inutes af	per minute, ter pumping			
w i			E *AAs	an. easured fror	m around l	اميرما		-	
- -		1 1		developed				 -	
			for	74	hours.				
	ĺ	1 1				HP			
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- 75h	. <i>№</i>	ec SAF	•••	יטוניי כו	we 4 C	uovuy.	 		
1,	N S		E W	·····	····			 	
	LOCATION ALL SQUAR	OF WE	LL AND PI		ISE, IF PO	SSIBLE.			
	,	//			Shan		 -	 -	
Driller's Si	gnature	J. 5.2.X.		<u>70</u>		مستسم ماسيي			
Dritler's A	ddress /	e Johns	on Drill	inh Ter	u, Cont	วก.า.			
				LICENISE	154			900	Show exact depth of bottom

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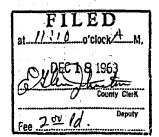
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File No		r / Z R -> eva-
DUPLICA	TE .	County / zaisce
	STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER Declaration of Vested Groundwater	DEC 20 1963
	(Under Chapter 237, Montana Session Laws, 1961)	
Country	(Name of Appropriator) (Address) of State of State	USHO
have a	propriated groundwater according to the Montana laws in effect prior	January 1, 1962, as follows:
	N 2. The beneficial use on which the clai	m is based State with
	3. Date or approximate date of earlie ous the use has been	st beneficial use; and how continu-
*	4. The amount of groundwater clain	ned (in miner's inches or gallons
	per minute) 5 gald,	
	5. If used for irrigation, give the act to which water has been applied	reage and description of the lands and name of the owner thereof
NEY	Sec. AT. 12R.50E	
and place	point of appropriation of use, if possible. Each are represents 10 acres. 6. The means of withdrawing such w tion of each well on other means of	withdrawal
	h.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,
draw	e date of commencement and completion of the construction of the well	
	depth of water table 300 ft.	
9 So f	for as it may be available, the type, size and depth of each well or the s for the withdrawal of groundwater.	general specifications of any other

	estimated amount of groundwater withdrawn each year.	
11. The	log of formations encountered in the drilling of each well if available	t ancilele
12. Such	n other information of a similar nature as may be useful in carrying o rence to book and page of any county record	***************************************
	Signature of Owner	Lughia Instoffice
Three co	pies 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.





File No. DUPLICATE STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER Declaration of Vested Groundwater RightsTATE ENGINLER (Under Chapter 237, Montana Session Laws, 1961) 1 puffalo Repids iroject ward of Control , of (Address) (Name of Appropriator) (Town) County of ... rairie. State of.... Lontana have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows: 2. The beneficial use on which the claim is based...... dousehold use and Fumping Flant 3. Date or approximate date of earliest beneficial use; and how continuous the use has been #961 1951 4. The amount of groundwater claimed (in miner's inches or gallons per minute)....5 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 Ny 14 Sw Sec. 13 T. 12 R. 20. Indicate point of appropriation and place of use, if possible. Each small square represents 10 The means of withdrawing such water from the ground and the location of each well or other means of withdrawal..... Artesian at Terry unpice Plant 7. The date of commencement and completion of the construction of the well, wells, or other works for with drawal of groundwater...... 8. The depth of water table.....600 feet 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other

10. The estimated amount of groundwater withdrawn each year.....not...vallable..... 11. The log of formations encountered in the drilling of each well if available......nct.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

> Buffalo mapids Project Signature of Owner Bound of Control

> > Date...iov...ii, 1953

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

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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NOV - 5 1963

County Clerk

Deputy

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	Pagi)
	County D	EIVEN
MONTANA BUREAU OF MINES Butte, Montans	AND GEOLOGY []	

STATE ENGINEER

	WATER WELL LOG	SINIL ENGINEE
OwnerAdri.	n Dolette	Address Terry, Montana
Driller <u>Tare</u> (J. Sond	Address Tenny, Montona
		Date Completed
Location: Sec	13 T 12 R 50 4	sec. \$6
Type of well	or drilled)	(Churi drill, rotary, other)
Water use: Domestic	Municipal Stock	Irrigation .
Industrial	Drainage Other:	
Casing:	tt. Type	Size 6 1.cch. I.D.
Casing:ft. to	ft. Type\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Size2inohID
Casing:ft. to	ft. Type	Size
Perforated or Screened: Ft584	to 1t616 Ft	to It
Type of screen or perforations	n-holos-out-one-tush-u	pert-with-outting-torch
Static Water level, for non-flowing well:		feet.
Shut-in pressure, for flowing well:	lb./sq. in. on:	(data)
Pumping water level	feet of	()
		•
How tested: with fire	-	
Length of testL.minute	.	
Remarks: (Gravel packing, cementing,	packers, type of shut-off, depth	of shut-off)
bentonite-pucking-be	tween-6-inch-and-two-i	40h

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	*******************	***************************************
€ ◆	(over)	

Log of Well

	Log of Well				
Denth	Depth, feet				
From	To	Description of Material Drilled			
FIGH					
j	1				
	16	Clay and Gumbo			
16	31	Gravel			
37	76	Gurbo			
76	78	Rock			
78	59	Gumbo			
- 13	90 +	KCCK			
90	242	Guido			
242	243	Page -			
243	260	we ter sand with small flow.			
260	276	dumbo			
276	277	Rock			
277	285	Gunbo			
285	298	"Bret, Bang			
298	300	Rock			
300	385	- Gumbo			
385	390	water Sand			
390	415	Guebo			
415	422	water send and added flow (small)			
422	428	Gunbo			
428	430	Rook			
430	435	water sand with added showing			
435	470	umbo			
470	474	Tater sand			
474	475	Sumpo			
475	490	Water send with more water			
479	490				
490	495	ock			
493 494	454 495				
495	503	Hater sand			
477	570	Cha le			
503 570	578	Shale with sand			
578	581	Shale			
581	582	Rock			
582	585	Shale			
585	615	water sand Main flow			
615	616	Rook			
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File No	•		T 12M R SOE	/3
DUPLICATE			CountyPrairie	

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Heited States of America	of Box 2558	Billings
(Name of Appropriator)	(Address)	(Town)
ounty of Yellowstone		
ave appropriated groundwater according	ng to the Montana laws in effect prior to Ja	nuary 1, 1962, as follows:
N		.
	2. The beneficial use on which the claim is b	ased Domestic
	use and Pumping Plant	
	3. Date or approximate date of earliest ben-	oficial was and how continue
	ous the use has been 1931	ericial use, and now continue
	ous the use has been	
X	4. The amount of groundwater claimed (in miner's inches or gallon
	per minute) 5 gallons	at minute a monda or Benom
	5. If used for irrigation, give the acreage to which water has been applied and	and description of the lands
s 	Not applicable.	
: 3 51½ // Sec. 13 T.12N R 505	***************************************	
icate point of appropriation	***************************************	
place of use, if possible. Each	6. The means of withdrawing such water f.	nom the ground and the loca
ill square represents 10 sares.		
The date of commencement and comdrawal of groundwater	pletion of the construction of the well, well	s, or other works for with
The depth of water table	pletion of the construction of the well, well P. feet The size and depth of each well or the generator.	a, or other works for with
The depth of water table	pletion of the construction of the well, well Pleat The size and depth of each well or the generator. 4 inch partial casing	a, or other works for with
The depth of water table	pletion of the construction of the well, well Pe, size and depth of each well or the generator. A lach partial casing	a, or other works for with
The depth of water table	pletion of the construction of the well, well Pleet The size and depth of each well or the generater	a, or other works for with
The depth of water table	pletion of the construction of the well, well P. feet The size and depth of each well or the generater. 4 inch partial casing The withdrawn each year. 3 serve for	a, or other works for with
The depth of water table	pletion of the construction of the well, well P. feet The size and depth of each well or the generater. 4 inch partial casing The withdrawn each year. 3 serve for	al specifications of any other
The depth of water table	pletion of the construction of the well, well P. feet The size and depth of each well or the generator. The partial casing the drilling of each well if available. The partial carrying out the litty record. This parts is used for i	al specifications of any other t available policy of this act, including investic, household,
The depth of water table	pletion of the construction of the well, well P. Foot The size and depth of each well or the generater. I such partial casing The withdrawn each year. The drilling of each well if available. This water is used for the partial first.	al specifications of any other t available policy of this act, in ludin innestic, households
The depth of water table	pletion of the construction of the well, well Please The size and depth of each well or the generator in the partial casing The withdrawn each year is a second for the control of the size of the	al specifications of any other at available policy of this act, in ludir immedia, boxenold, at
The depth of water table	pletion of the construction of the well, well pe, size and depth of each well or the generator 4 inch partial casing r withdrawn each year. 3 serve for the drilling of each well if available. 20 mature as may be useful in carrying out the cinty record. This water is made for its by small years of the faited State. Terry Pusping Plant in correction in the faited State.	al specifications of any other at systlable policy of this act, in-luding innestic, household, at a cath operation of the
The depth of water table	pletion of the construction of the well, well Please The size and depth of each well or the generator in the partial casing The withdrawn each year is a second for the control of the size of the	policy of this act, including on the state of the second o

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.

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A CONTRACT OF STATE OF STATES AND
NO RECORD.

T	12	R50	22
County		Prairie	************

MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana

WATER WELL LOG

Owner	R. J. Dolatta	Address Perry, Montana
Driller	Ira. C. Bond	Address Terry, Montana
Date Started.	August 25, 1957	August 29, 195
Location. Sec	22 T 12 R 50	. ½ sec
Type of well	Equipment used	Cable and Rotary (Caura drill, rotary, other)
Water use: Domestic		ck Irrigation
Industrial	Drainage Cther:.	· F _{1.}
Casing: surface ft. to 33	ft. Type steel	Sise 6 ^{tt}
Casing: Surface ft. to 470	ft. Type Ealy.	8ize2ii
Casing:ft. to	ft. Type	
		to It
Type of screen or perforations	3/16 by torch	······································
Static Water level, for non-flowing we	u:	
•	•	n; Aug. 29, 1957 (date)
Pumping water level	feet at	gal per min
How tested:		
Length of test	,	
Remarks: (Gravel packing, cementing	ng, packers, type of shut-off, der	pth of shut-off)
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