WELL RECORD FORM

PWSID# or PWTS No PWTS Permit No							GeoSam WNumber (IGS use only)									
Site Identification							Drill Method ☑ Rotary ☐ Auger ☐ Cable ☐ Other									
Property owner Rembrandt Enterprises Other ID 2R										1						
Address 141 480th Street City Rembrandt							Hole size hole size continued									
Tenant				17 inch from 0 ft to 426 ft inch from ft to							ft to ft					
Well depth 426 ft Date completed 10 / 11 / 2017							inch fromft toftinch fromft tof									
Locatio	n		Cou	_ Casing or Loop Pipe												
GPS coord	dinates (NAD	083 datum)		Record all depth measurements from ground level (GL). Use + for above GL measurements.												
42	2.8238060	La	atitude	Size	Materia	Depth		Depth	perfo	မြွ		Screen				
✓ Decima	al Degrees	Degree	es, Decimal M	(in)			Тор	Bottom	perforateo	Slotted Sc		Succii				
1/4 of the SW $1/4$ of the SW $1/4$ of Sec 32 TWP 93 RNG 36 W							SDR17 PVC		0	391			☐ slot	size		
	-				n map of well location on property.	8	Stainless Ste	eel	391	426		slot size0		size030		
	N										□ □ slot size		size			
					N								☐ slot	size		
		E E										slot size				
W -					I	☑ Gra	☑ Gravel packed 315 426					amount 111 variety Chlorinate				
X						☐ Sea	ls/packers				type					
	Ş		1		200 ft	□ Bottom capped with Chlorinate										
Formati	on Log					Casing Grout Placement method										
From	То	Color	Hardness		Formation description	Type Depth Top Depth Bottom Amo							Amount (vollwt)			
0	12	brown	loose	Top so	il and sandy clay	Bentonite Grout 0 315										
12	20	gray	dense	Clay wi	th trashy sand and gravel											
20	40	gray	dense	Clay wi	th sand and gravel and											
				rocks		Pump Inetallation							20 / 2017			
40	53	brown	loose	Fine, m	edium to coarse sand	Pump Installation Date 10 / 20 / 2										
53	60	gray	dense	Clay wi	th rocks and sand	Type of pump Grundfos Depth to intake										
60	80	gray	dense	Clay wi	th sand and rocks	Pump diameter 4 in Rated capacity 230						GPM				
80	100	gray	dense	Clay wi	th sand and gravel and	Wate	r Informatio	Date 10 / 11 / 2017								
				rocks		Static \	Water Level	Pumping	g Water Le	vel	el Yield			Duration		
100	120	gray	dense	Clay		-	146 _{ft}	10	186ft			_GPM	2.00 hrs			
120	140	brown	dense	Clay wit	th sand, gravel and rocks	Water I	evel measurem	ent: [nt: □Sonic ☑Tape □Airline □E-line □Estimate							
140 160 tan loose Sandy clay with hard ledges							Water yield measurement: ☑Orifice ☐Volumetric ☐Estimate									
160	180	tan	dense	Sandy	clay	_							Triale			
180	215	gray	dense	Clay		Main water-supply zone from 391 ft to 426 ft below GL										
215	220	brown	loose	Fine, m	edium, coarse sand	Well Development										
						✓ Phy	rsical explain	Doub	le disc sı	urge block						
(use additional sheets as needed)							☑ Chemical explain: Aqua Clear PFD									
Remarks (including depth of lost drilling fluids, materials, or tools)							Granical explain.									
							Contractor									
Well Hee							Company Sargent Drilling									
Well Use □ Domestic						Address PO Box 634, Carroll, IA 51401										
□ Heat nump □ □ Commercial □ Irrigation																
# of borehole(s) Monitoring Other							Driller Derek Schweitzer Certification no. 8338									





WELL RECORD FORM

PWSID# or PWTS No PWTS Permit No							GeoSam WNumber (IGS use only)								
Site Identification							Method	Rota	ıry 🗆 A	uger [] Cab	ole 🗆 Ot	ther _		
Property owner Remrbandt Enterrpises Other ID 2R									***************************************	T				Part 100 100 100 100 100 100 100 100 100 10	
Address City							Hole size hole size continued								
Tenant	•			inch from 0 ft to ft inch from						1	ft to ft				
Well depth	າ	ft		inch from ft to ft inch from ft to ft											
Locatio	n		Cou	Casing or Loop Pipe											
GPS coord	dinates (NAD	083 datum)		Record	all depth meas	surements	from groun	d level (GL	′		e GL	measurements.			
		La	atitude	Size	Mater	Depth		Depth Bottom	perfor	Slotted		Screen			
Decima	al Degrees	Degree	es, Decimal M	inutes	Degrees, Minutes, Seconds	(in)	Iviator		" Top		1 8	l			
1/4	of the	_ 1/4 of the	1/4 of \$							100	slot	size			
Show exact	location of w	ell in section	grid with a dot	(•). Sketch	n map of well location on property.						F	1 0 0	slot	size	
	N	-			N						$\downarrow \Box$	1 0 0	slot	size	
	<u>.</u>				N 						$\downarrow \Box$			size	
w _	<u>. </u>	E E										slot size			
	· + + +	-			'		avel packed				amo	ount	_variety		
					200 ft	☐ Seals/packers type									
	S				200 ft	■ Bottom capped with									
Formati	on Log	ı				Casing Grout Placement method									
From	То	Color	Hardness		Formation description	Type Depth Top Depth Bottom						tom	Amount (vol/wt)		
220	240	brown	loose	Fine, m	nedium, coarse sand and										
				fine gra											
240	259	brown	loose		nedium, coarse sand and										
				fine to r	medium gravel	Pump Installation Date/									
259	280	red	hard	Shale		Type of pump Depth to intakeft									
280	295	red	hard		vith hard layers										
295	340	brown	hard		medium sandstone with										
				shale st			r Informati	1		. 1		Date			
340	400	brown	hard		medium sandstone with	Static \	Water Level	Pumpi	ng Water Le	evel				Duration	
					f fine gravel and shale	ft ft GPM						hrs hrs			
streaks							Water level measurement: ☐Sonic ☐Tape ☐Airline ☐E-line ☐Estimate								
400	400 420 brown hard Fine to medium and coarse							Water yield measurement: □Orifice □Volumetric □Estimate							
					one with shale layers and	Main water-supply zone from ft to ft below GL									
					fine gravel										
420	426	white	hard		vith thin sandstone	Well Development									
				streak	itional sheets as needed)	☐ Physical explain:									
D- '				Chemical explain:											
Remarks (including depth of lost drilling fluids, materials, or tools)															
				Contractor											
Well Us	se			Company											
Dome		□Pu	ıblic supply	Address											
☐ Heat p	oump	□ Co	mmercial	Irrigation	Driller Certification no										
# of borehole(s) Monitoring Other												-			



THE UNIVERSITY OF IOWA



WELL RECORD FORM

PWSID# or PWTS No PWTS Permit No							GeoSam WNumber (IGS use only)									
Site Identification							Drill Method ☐ Rotary ☐ Auger ☐ Cable ☐ Other									
Property owner Remrbandt Enterrpises Other ID 2R										T						
Address City							Hole size hole size continued									
Tenant							inch from 0 ft toft inch from ft t							ft to ft		
Well depth	າ	ft	С									ft to ft				
Locatio			Cou	Casing or Loop Pipe												
GPS coord	dinates (NAC)83 datum)			Record all depth measurements from ground level (GL). Use + for above GL measurements.											
		La	atitude		Longitude	Size	Materi	al	Depth	Depth	Perfo		Screen			
Decima	al Degrees	Degree	es, Decimal M	inutes	Degrees, Minutes, Seconds	(in)		Top		Bottom	8 2					
1/4	of the	_ 1/4 of the	1/4 of 3							+		size				
Show exact		ell in section	grid with a dot	(•). Sketcl	h map of well location on property.									size		
	N T T T	— т			N									size		
-	+ + +											+		size		
w	+ + +	= E E				Cravel needed						Slot size				
	+ + +	_									amo		_ variety	ariety		
	ı		—	Seals/packers type												
				gga zin ette helma Pinkerkerken av de Pinker		Bottom capped with Placement method										
Formati		Color	Llordnood	Casiii	Placement method Depth Top Depth Bottom Amount (volw)											
From 426	To 440	Color	Hardness		Formation description with thin sandstone	Type Depth Top Depth Bottom Am							Arribant (voiwi)			
420	440	white	hard	streaks												
440	450	brown	hard		with thin sandstone	+										
440	430	DIOWII	Haru		and hard layers	0										
	and the same and the same says to							on				Date _	/_			
								Type of pump ft								
								Pump diameter in Rated capacity GPM								
								on .				Date_	/_	/		
							Static Water Level Pumping Water Level Yield						Duration			
							ftftGPM						hrshrs			
							Water level measurement:									
							- Water yield measurement:									
							Main water-supply zone from ft to ft below GL									
						Well Development										
						☐ Phy	/sical expla	in:								
(use additional sheets as needed)							Physical explain:									
Remarks (including depth of lost drilling fluids, materials, or tools)							Chemical explain:									
							Contractor									
Well Use							Company									
□ Domestic □ Public supply □ Livestock							Address									
☐ Heat pump ☐ Commercial ☐ Irrigation							Driller Certification no									
# of borehole(s) Monitoring Other																





DNR Form 542-8170