WELL RECORD

PWTS Permit No. 2004-559W

Drill identification			ral Resources y, IA 52242-131		Survey PWTS Well No		303	6 Cou	ınty Permit No).		
Address 1301 38th Street Spencer IA 51301	Site ide	entificatio	on	-		Drill metho	d 🗆	rotary 🗆 a	uger 🗆 cabl	e other_	Reverse	
Address 1301 38th Street Spencer IA 51301	Property (Owner C	lay Regi	onal W	ater Other ID Well #6	Hole size			hole size continue	ed		
Well Depth 42 It Date completed 09 / 03 / 04 Record at opph measurements from ground lover (Cit.). Use (1) for above 8() measurements (MADS) depth 15 miles 15						_20_inch fr	rom <u>0</u> ft	to <u>44</u> ft	inch	fromft	toft	
Note County Clay	Tenant_C	Clay Re	gional	Water		inah fi	#	to #	inch	from t	to ft	
Casing Dote those County Clay Casy	Well Dept	h <u>42</u>	:ft		Date completed <u>09 / 03 / 04</u>							
1/3 m 1/5	Leastic			Parameter /	77 211						, measurements	
1/3 m/c 2 mod 1/5 m/c enterection of 300th St and 160th Ave. 12" 0.375" 3 32 29 1 2 mod	rocatio	N _	U	county	Lay	_		. •			Amount (length	
SNO 1/4 of the NE 1/4 of the SE 1/4 of Sec 13 TWP 97 RNG 38 to GPS Coordinates (NADB3 datum only) decimal degrees: N. Lattude	1/3 mi	$N_{\rm and} \underline{1}$	/5 mi for in	itersection of	300th St and 160th Ave.							
Note that the purpose is not the control of the destination of the purpose is not the control of the purpose is not the pur	_ <u>SW</u> 1,	/4 of the N	E_1/4 of the	SE 1/4	of Sec_13_TWP_97_RNG_38_E							
Perforated or slotted casing? (yee (m) Perforated or slotted from	GPS Coord	nates (NAD8	3 datum only) de	ecimal degree	s:							
Well screen Remarks (including depth of lost diting fluids, materials, or tools) Well use Casima section prioretria displaced Casima provised Seatch map of well location on property. Well use Casima groutled? (**) no) Pleacement method Tremie Neat Cement 5' 19' 1 cyd		_·	N. L	atitude _	W. Longitude.		<u> </u>					
Perforated / slotted from	Show exact	location of w	ell in section and	d with a dot (a	Sketch map of well location on property.	Perforated or slotted casing? (yes no						
Well #6 Water Part Par	Onote ando		on in occurr y		-	Perforated / slotted fromft toft						
Well screen Type Depth top Depth bottom Amount (vol/wt)	Γ	ΠÏ		T	Well #6● W N	Perforated / slott	ted from	n	ft to_		ft	
Type Depth top Depth bottom Amount (vol/wl)	<u> </u>	-++	+-		₹ \	Casing gro	uted? (yes) no)	Placement metho	od <u>Tremi</u>	.e	
South Street South Street South Street South Street South Street South Street South Street South State	w	++	- ↓ E Ţ	Ē	Water -	Туре		Depth top	Depth botto	om Amo	ount (vol/wt)	
Well screen? Well screen. Well	F	-	+•-			Neat Ceme	ent	5'	19'		1 cyd	
Diameter Sict Size Depth top Depth bottom Length Material	L			Ţ								
Dameter Stot size Depth top Depth bottom Length Material			Tueller (E) les	ed ourfood		Well screen	n? (yes) no)				
Form To Color Hardness Formation description 12" V=2" 32" 42 10" SS1			_ Valley Lev	ver Surrace i	Zievalion (n Niowii)	Diameter	Slot size	Depth top	Depth bottom	Length	Material	
Black Topsoil Bottom capped (ves) no with SST Plate Attached		•	l Color I	Hardagee	Formation description	12"	0. <u>100</u>	32'	421	10'	SST	
Sand & gravel w/cobbles Seals/Packers (yes) no) with SST Plate Attached				Heiulitoo			0					
Saray Coarse sand & gravel Saray Gravel packed Grave	0		Black		-		(yes) no)	with SST	Plate At	tached		
Sand & gravel w/cobbles Spand & gravel w/cob	1	15	Tan		Sand & gravel w/cobbles	Seals / Packers	yes) no)					
Well developed? (ves) no) Explain Surge block, bailer, rawhiding [umped] ariffted (alled) for 4 hrs at 500 GPM Pump installed? (ves) no) Installer's name Ben Bailey Type of pump Submersible Depth to Intake 42 from Submersible Depth to Intake 42 from Submersible Depth to Intake 42 from Submersible Depth to Intake 12 from Submersible Depth to Intake 142 from Submersible Depth to	15	37	Gray		Coarse sand & gravel	——————————————————————————————————————						
Explain Surge block, bailer, rawhiding (pumped) airfifted (balled) for 4 hrs at 500 GPM Pump installed? (res) no) Date 04 / 14 / 05 Installer's name Ben Bailey Type of pump Submersible Depth to intake 42 from diameter 8 n Rated capacity 600 GPM Water information Aquifer: Stand/gravel timestone sandstone Main water-supply zone from 15 ft to 44 ft seepage well Static water level 11.5 ft (below) above) GL; stape salffine StE-line stimate Pumping water level 19.6 ft below GL; stape salffine StE-line stimate At yield of 550 GPM; Storffice solumetric stimate for 72 hours Measurements taken at 1:00 (AM PM) Date 01/14/05 Remarks (including depth of lost drilling fluids, materials, or tools) Water quality test? (res) no) Date tested 01/14/05 Tested by Clay Regional Water Association Well use Heat pump	37	42	Gray		Sand & gravel w/cobbles			type Nort	nern #3	amount 3.	5 Tons	
Dumped airlifted (bailed) for 4 hrs at 500 GPM Pump installed? (res) no) Date 04 / 14 / 05 Installer's name Ben Bailey Type of pump Submersible Depth to intake 42 for pump diameter 8 " Rated capacity 600 GPM	42	44	Gray		Clay				r rawhid	ina		
Pump installed? (yes) no) Date _04 / 14 / 05 Installer's nameBenBailey Type of pumpSubmersible						·						
Installer's name Ben Bailey Type of pump Submersible Depth to intake 42 f Pump diameter 8 n Rated capacity 600 GPN Water information Aquifer: So sand/gravel limestone sandstone Main water-supply zone from 15 ft to 44 ft seepage well Static water level 11.5 ft below above) GL; clape airline SE-line estimate Pumpling water level 19.6 ft below GL; clape airline SE-line estimate Pumpling water level 19.6 ft below GL; clape airline SE-line estimate At yield of 550 GPM; So riffice volumetric estimate for 72 hours Measurements taken at 1 : 00 (AM PM Date 01 / 14 / 05 Water quality test? (yes) no) Date tested 01 / 14 / 05 Tested by Clay Regional Water Association Well use											14 / 05	
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Pump diameter 8 " Rated capacity 600 GPN						· -			Dej	pth to intake	42 f	
Main water-supply zone from 15 ft to 44 ft seepage well Static water level 11.5 ft below above GL; tape airline EE-line estimate Pumping water level 19.6 ft below GL; tape airline EE-line estimate At yield of 550 GPM; Worffice volumetric estimate for 72 hours Measurements taken at 1 : 00 (AM PM) Date 01 / 14 / 05 Water quality test? (ves) no) Date tested 01 / 14 / 05 Tested by Clay Regional Water Association Well use Heat pump												
Static water level11.5_ ft below above) GL;						Water infor	mation	Aquifer: 2	Sand / gravel	☐ limestone	□ sandstone	
Pumping water level 19.6 ft below GL; cape airline Eline estimate At yield of 550 GPM; Sortifice volumetric estimate for 72 hours Measurements taken at 1:00 (AM PM Date 01 / 14 / 05 Remarks (including depth of lost drilling fluids, materials, or tools) Water quality test? (yes) no) Date tested 01 / 14 / 05 Tested by Clay Regional Water Association Well use Heat pump Commercial Municipal Monitoring Address 5600 Gateway Drive Suite B. Grimes TA						Main water-suppl	ly zone from	ft	to <u>44</u> fi	seepage	well	
At yield of 550 GPM; Worlfice volumetric estimate for 72 hours Measurements taken at 1:00 (AM PM Date 01/14/05 Remarks (including depth of lost drilling fluids, materials, or tools) Water quality test? (yes) no) Date tested 01/14/05 Tested by Clay Regional Water Association						Static water level		belowabove)GL; □tape □a	airline 🖾 E-line	estimate	
Well use Heat pump Commercial Domestic Municipal Municipal Municipal Municipal Municipal Municipal Measurements taken at 1:00 (AM PM Date 01/14/05 Measurements taken at 1:00 (AM PM Date 01/14/05 Tested by Clay Regional Water Association Contractor Layne-Western Address 5600 Gateway Prive Suite B. Grimes. TA						Pumping water le	vel 19.6	_ft below GL;	□tape □ai	irline ⊠E-line	□estimate	
Well use Domestic Municipal Municip						At yield of 55	50 GPM;	⊠ orifice □vo	lumetric 🗆 estima	ate for <u>7</u>	2 hours	
Well use Domestic Municipal Municip				use a	dditional sheets as needed	Measurements ta	ken at <u>1</u>	<u>: 00 (</u> AN	M.PM	Date <u>01</u> /_	14 / 05	
Well use Domestic Municipal Municip	Remark	S (including	g depth of lost o	drilling fluids	, materials, or tools)					tested 01 /	14 / 05	
Well use							- ,	_				
□ Domestic □ Municipal □ Monitoring Address 5600 Gateway Drive, Suite B. Grimes, TA	Well use		C teal []		☐ Commercial							
			☐ Munic	ipal	☐ Monitorina							

System

Driller

Mark Leslie

☑ Public supply☐ Imigation

Livestock ☐ Test well

Certification no. 3684