

Shawver Well Company, Inc.

2700 Stanley Avenue
Fredericksburg IA 50630

89664

(563) 237-5341
(800) 568-4449

Location of Well				Well Details			
Well #4		County	Humboldt	Actual Size	10	Pump Inst	--
2nd Ave S		Township	Humboldt	Depth	980	Liner	-- ft
Dakota City, IA 50529		Section	06	SWL	58	Screen	--
Latitude	42.7188252	Quarters	SW	RFS	380 @ 400 GPM		
Longitude	-94.2031630	T&R	T91N R28W	Air Lift	980' @ 600-800 GPM; 380' @ 400-500 GPM	Acidize	-- gal
		Elevation	1132			Made Water	430'-445', 478', 578'
Customer Information							
City of Dakota City							
2nd Ave S							
Dakota City, IA 50529							
Job Information							
Job Use	Municipal	Start Date	08/02/2018	Driller	Dave Halweg Sr		
PWTS #		End Date	09/07/2018	Driller Cert #	2814		
Permit #				State Remarks			
Formation Log				Bore Hole			
From-To	Color	Formation		From-To	Bit Size		
0 - 2		Topsoil		0 - 20	23"		
2 - 12	Tan - Brown	Sandy - Clay		20 - 129	19"		
12 - 24	Blue	Sandy - Clay		129 - 150	15"		
24 - 51	Blue	Gravel - clay		150 - 430	14 3/4"		
51 - 69	Tan	Clay		430 - 980	10"		
69 - 71	Orange - Tan	Clay & Limestone					
71 - 82	Orange - Yellow	Sandstone					
82 - 86	Gray - Tan	Clay					
86 - 98	Gray - Tan	Clay - Sandstone					
98 - 104	Gray	Clay					
104 - 112	Tan - White	Clay					
112 - 115	White	Limestone & Clay					
115 - 126	Light Gray - Blue	Clay					
126 - 131	Gray - Brown	Shale - Rock - Soft -Streaks					
131 - 140	Brown - Gray	Broken Shale & Limestone					
140 - 147	Gray	Shale & Sandstone					
147 - 162	Brown - White	Limestone - Shale - Sandstone					
162 - 168	Brown - Gray	Shale & Limestone					
168 - 174	Gray - Black	Shale - Soft					
174 - 183	White - Blue	Shale & Sandstone					
183 - 187	White	Crumbly Shale					
187 - 196	White	Limestone & Shale					
196 - 231	Light Yellow	Limestone & Blue Green Shale					
231 - 403		Shale & Limestone					
403 - 445	Gray - Brown	Limestone					
445 - 514	Gray - Cream	Limestone					
514 - 520	Brown - Gray	Limestone					
520 - 530	Gray	Limestone					
530 - 540	Brown	Limestone					
540 - 578	Brown - Gray	Limestone					
578 - 610	Cream	Limestone with Gray Seams					
610 - 704	Gray - Brown	Limestone					
704 - 732	Brown	Limestone					
732 - 750	Brown - Gray	Limestone					
750 - 764	Blue - Green	Shale Rock					
764 - 790	Brown - Gray	Limestone					
790 - 800	Dark Brown - Gray	Limestone					
800 - 804	Brown - Gray	Limestone					
804 - 816	Dark Brown	Limestone					
816 - 870	Gray - Cream	Limestone					
870 - 893	Dark Gray	Limestone					
				Casing or Loops			
From-To		Casing					
+1 - 129		16" ID x Steel					
+3 - 430		10 ID x .365 Steel					
				Screen Details		Liner Details	
				Screen Size		Liner Size	
				Slot Size		Set From	
				Set From		Perforated From	
				Riser Pipe			
				Tail Pipe			
				Grout Consumed			
Amount		Unit		Type			
7		Sk		EZ Seal			
7		Sk		Holeplug			
675		Sk		Neat Cement			

893 - 910
910 - 980

Crene
Brown - Gray

Limestone & Chert
Limestone & Chert

89664

83004

PWSID# or PWTS No. _____	PWTS Permit No. _____	GeoSam WNumber (IGS use only) _____
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Site Identification

Property owner _____ Other ID _____
Address _____ City _____
Tenant _____
Well depth _____ ft Date completed ____/____/____

Location

County _____

GPS coordinates (NAD83 datum)

_____ Latitude _____ Longitude _____

☐ Decimal Degrees ☐ Degrees, Decimal Minutes ☐ Degrees, Minutes, Seconds

_____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RNG _____ E

Show exact location of well in section grid with a dot (*). Sketch map of well location on property.

Drill Method

☐ Rotary ☐ Auger ☐ Cable ☐ Other _____

Hole size

_____ inch from _____ 0 ft to _____ ft
_____ inch from _____ ft to _____ ft

hole size continued

_____ inch from _____ ft to _____ ft
_____ inch from _____ ft to _____ ft

Casing or Loop Pipe

Record all depth measurements from ground level (GL). Use + for above GL measurements.

Size (in)	Material	Depth Top	Depth Bottom	Perforated	Slotted	Screen
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____

☐ Gravel packed amount _____ variety _____

☐ Seals/packers type _____

☐ Bottom capped with _____

Casing Grout

Placement method _____

Type	Depth Top	Depth Bottom	Amount (vol/wt)

Pump Installation

Date ____/____/____

Type of pump _____ Depth to intake _____ ft

Pump diameter _____ in Rated capacity _____ GPM

Water Information

Date ____/____/____

Static Water Level	Pumping Water Level	Yield	Duration
_____ ft	_____ ft	_____ GPM	_____ hrs

Water level measurement: ☐ Sonic ☐ Tape ☐ Airline ☐ E-line ☐ Estimate

Water yield measurement: ☐ Orifice ☐ Volumetric ☐ Estimate

Main water-supply zone from _____ ft to _____ ft below GL

Well Development

☐ Physical explain: _____

☐ Chemical explain: _____

Contractor

Company _____

Address _____

Driller _____ Certification no. _____

Formation Log

From	To	Color	Hardness	Formation description
				(use additional sheets as needed)

Remarks (including depth of lost drilling fluids, materials, or tools)

Well Use

☐ Domestic ☐ Public supply ☐ Livestock
☐ Heat pump ☐ Commercial ☐ Irrigation
of borehole(s) _____ ☐ Monitoring ☐ Other _____

City of Dakota City – Well #4

162	to	168	Brown Gray Shale and Limestone
168	to	174	Soft Gray Black Shale
174	to	183	White Blue Shale with Some Sandstone
183	to	187	White Crumbly Shale
187	to	196	White Limestone and Sandstone
196	to	231	Light Yellow Limestone and Blue Green Shale
231	to	403	Shale and Limestone
403	to	417	Shale
417	to	430	Hard Limestone
430	to	445	Gray Brown Limestone
445	to	514	Gray and Crème Limestone
514	to	520	Brown Gray Limestone
520	to	530	Gray Limestone
530	to	540	Brown Limestone
540	to	578	Brown and Gray Limestone
578	to	578	Fracture
578	to	610	Crème Limestone with Seams of Gray Limestone
610	to	704	Gray Brown Limestone
704	to	732	Brown Limestone
732	to	750	Brown and Gray Limestone
750	to	764	Blue Green Shale Rock
764	to	790	Brown and Gray Limestone
790	to	800	Dark Brown and Gray Limestone
800	to	804	Brown and Gray Limestone
804	to	816	Dark Brown Limestone
816	to	870	Gray and Crème Limestone
870	to	893	Dark Gray Limestone
893	to	910	Crème Limestone with Chert
910	to	980	Brown and Gray Limestone with some Chert