

**City of Swea City | Well #4 | PWSID 5584009**

43.3843276, -94.3068908 | 1182' Elevation

Swea City, Iowa

Started: 05/11/2016 - Completed: 05/25/2016

***Log of Well***

0'	to	2'	Topsoil
2'	to	6'	Brown Tan White Soft Clay
6'	to	10'	Brown Tan Soft Clay
10'	to	16'	Dark Brown Clay
16'	to	45'	Blue Clay with some Gravel
45'	to	76'	Medium Sand
76'	to	81'	Blue Clay with some Gravel
81'	to	96'	Fine Medium Sand
96'	to	105'	Blue Clay with Some Gravel
105'	to	112'	Blue Green Clay
112'	to	120'	Gray Clay
120'	to	123'	Black Sandstone and Clay
123'	to	143'	Gray Clay
143'	to	148'	Tan White Limestone
148'	to	152'	Gray Brown Limestone
152'	to	169'	Soft Brown and White Sandston
169'	to	173'	Harder Brown and White Sandstone
173'	to	176'	Sandstone with Black Clay
176'	to	184'	White Shale with some Sandstone
184'	to	205'	White Shale
205'	to	217'	White and Limestone
217'	to	232'	Light Brown Limestone with Shale Seams
232'	to	244'	Dark Brown Limestone and Shale Rock
244'	to	257'	Light Brown Limestone
257'	to	285'	Light Brown Limestone with Small Blue Shale Seams

Made Water: 232'-244'

***Construction Record***

A 19" diameter hole was drilled to the depth of 20' and 21' of 16" OD steel casing was furnished, installed and removed after the grouting of the 10.75" steel casing. A 15" diameter hole was drilled to the depth of 215' and 217' of 10.75" x .365" wall steel A53B grade casing was installed and grouted using 160 sacks of neat cement grout. A 9.875" diameter hole was drilled to the final well depth of 285'. The well was then air developed with a final static water level of 37.96'.

The well was test pumped for 1.25 hours at 250 GPM, 1 hour at 300 GPM, 13.75 hours at 330 GPM and 8 hours at 340 GPM with a final pumping water level of 49.84'.