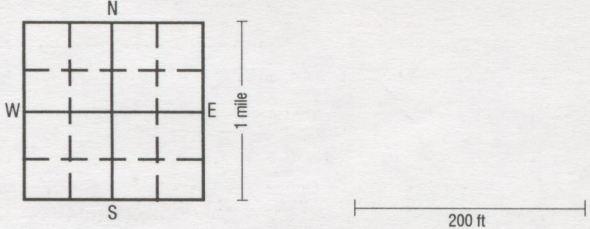


<b>Site identification</b> Property Owner <u>Bremer Co Conservation</u> Well Number <u>15476</u> Address <u>Northwoods Park Summer Ia</u> Tenant _____ Well Depth <u>350</u> ft Date completed <u>03/04/04</u>					<b>Drill method</b> <input checked="" type="checkbox"/> rotary <input type="checkbox"/> auger <input type="checkbox"/> cable other _____ <b>Hole size</b> 12 1/4 inch from 0 ft to 6 ft 9 7/8 inch from 6 ft to 277 ft hole size continued 6 1/4 inch from 277 ft to 350 ft _____ inch from _____ ft to _____ ft																																																																
Record all depth measurements from ground level (GL). Use (+) for above GL measurements.																																																																					
<b>Location</b> County <u>Bremer</u> _____ mi. N and _____ mi. E of intersection of _____ and _____ <u>NW</u> 1/4 of the <u>SW</u> 1/4 of the _____ 1/4 of Sec <u>13</u> TWP <u>93</u> RNG <u>11</u> E W Show exact location of well in section grid with a dot (•). Sketch map of well location on property.  <input type="checkbox"/> upland <input type="checkbox"/> hillside <input type="checkbox"/> valley Elevation (if known) _____					<b>Casing</b> Drive shoe (yes / no) _____ Pitless adapter (yes / no) _____ Size (ID/OD) Type / Wt Depth top Depth bottom Amount (length) <u>3.17-7"</u> <u>Steel</u> <u>+2'</u> <u>277'</u> <u>279'</u> _____ _____ _____ <b>Perforated or slotted casing?</b> (yes / no) Perforated / slotted from _____ ft to _____ ft Perforated / slotted from _____ ft to _____ ft																																																																
<b>Formation log</b> <table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>From</th><th>To</th><th>Color</th><th>Hardness</th><th>Formation description</th></tr></thead><tbody><tr><td>0</td><td>3</td><td>black</td><td></td><td>Topsoil / dirt</td></tr><tr><td>3</td><td>6</td><td>.</td><td></td><td>Sand</td></tr><tr><td>6</td><td>14</td><td>brown</td><td></td><td>clay</td></tr><tr><td>14</td><td>25</td><td></td><td>fine</td><td>sand</td></tr><tr><td>26</td><td>30</td><td>blue</td><td></td><td>clay</td></tr><tr><td>30</td><td>34</td><td>blue</td><td>sandy</td><td>clay</td></tr><tr><td>34</td><td>161</td><td>blue</td><td></td><td>clay</td></tr><tr><td>161</td><td>161 1/2</td><td></td><td></td><td>lime rock</td></tr><tr><td>161 1/2</td><td>178</td><td>green / white</td><td></td><td>shale</td></tr><tr><td>178</td><td>275</td><td>blue</td><td></td><td>shale</td></tr><tr><td>275</td><td>350</td><td>white / brown</td><td></td><td>lime rock</td></tr></tbody></table>					From	To	Color	Hardness	Formation description	0	3	black		Topsoil / dirt	3	6	.		Sand	6	14	brown		clay	14	25		fine	sand	26	30	blue		clay	30	34	blue	sandy	clay	34	161	blue		clay	161	161 1/2			lime rock	161 1/2	178	green / white		shale	178	275	blue		shale	275	350	white / brown		lime rock	<b>Casing grouted?</b> (yes / no) _____ Placement method _____ Type Depth Top Depth bottom Amount (vol/wt) <u>Benseal</u> <u>0</u> <u>277</u> <u>15 sk</u> <u>High early</u> <u></u> <u></u> <u>7 sk</u> <b>Well screen?</b> (yes / no) _____ Diameter Slot size Depth Top Depth Bottom Length Material 0. _____ 0. _____ Bottom capped (yes / no) with _____ Seals / Packers (yes / no) kind _____ depth _____ ft Gravel packed (yes / no) from _____ ft to _____ ft type _____ amount _____				
From	To	Color	Hardness	Formation description																																																																	
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<b>Remarks</b> (including depth of lost drilling fluids, materials, or tools)   <b>Well use</b> <input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Municipal <input type="checkbox"/> Commercial <input type="checkbox"/> Livestock <input type="checkbox"/> Public supply <input type="checkbox"/> Monitoring <input type="checkbox"/> Test well <input type="checkbox"/> Irrigation <input type="checkbox"/> Other _____ (explain) _____					<b>Well developed?</b> (yes / no) <input checked="" type="checkbox"/> Explain <u>250' @ 45 GPM - 350' @ 75 GPM</u> (pumped, <u>airlifted</u> , bailed) for <u>2</u> hrs at <u>25</u> GPM. <b>Pump installed?</b> (yes / no) _____ Date ____/____/____ Installer's name _____ Type of pump _____ Depth to intake _____ ft Pump diameter _____ Rated capacity _____ GPM <b>Water information</b> Aquifer: <input type="checkbox"/> sand / gravel <input checked="" type="checkbox"/> limestone <input type="checkbox"/> sandstone Main water-supply zone from _____ ft to _____ ft <input type="checkbox"/> seepage well Static water level <u>110</u> ft (below / above) GL; <input type="checkbox"/> tape <input type="checkbox"/> airline <input type="checkbox"/> E-line <input type="checkbox"/> estimate Pumping water level <u>230</u> ft below GL; <input type="checkbox"/> tape <input type="checkbox"/> airline <input type="checkbox"/> E-line <input type="checkbox"/> estimate At yield of <u>25</u> GPM; <input type="checkbox"/> orifice <input type="checkbox"/> volumetric <input type="checkbox"/> estimate Measurements taken at _____: _____ (AM / PM) Date ____/____/____ <b>Water quality test?</b> (yes / no) _____ Date tested ____/____/____ Tested by _____ Contractor <u>Shawver Well Co</u> Address <u>Fredericksburg Ia 50630</u> Driller <u>Ryan Shawver</u> Certification no. <u>40751</u>																																																																