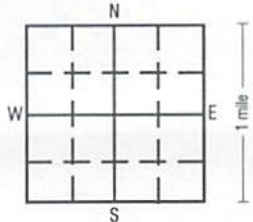


Site identification Property Owner <u>Iowa City</u> Well Number <u>CW-1</u> Address <u>Iowa City</u> Tenant <u>Iowa City Water Division</u> Well Depth <u>37</u> ft Date completed <u>12/1/99</u>		Drill method ☐ rotary ☐ auger ☐ cable other <u>Clam</u>																															
Location County <u>Johnson</u> mi. N and mi. E of intersection of _____ and _____ 1/4 of the 1/4 of the <u>NW</u> 1/4 of Sec. <u>33</u> TWP <u>80N</u> RNG <u>60E</u> Show exact location of well in section grid with a dot (•). Sketch map of well location on property. 		Hole size <u>156</u> inch from <u>0</u> ft to <u>37</u> ft hole size continued _____ inch from _____ ft to _____ ft																															
Formation log <table border="1"><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>10'</td><td></td><td></td><td>Brown Sandy Clay</td></tr><tr><td>10'</td><td>37'</td><td></td><td></td><td>Yellow Brown Sand & Gravel</td></tr><tr><td>37'</td><td>38'</td><td></td><td></td><td>Weathered limestone</td></tr></tbody></table>		From	To	Color	Hardness	Formation description	0'	10'			Brown Sandy Clay	10'	37'			Yellow Brown Sand & Gravel	37'	38'			Weathered limestone	Casing Drive shoe (yes/no) ☒ Pitless adapter (yes/no) ☒ <table border="1"><thead><tr><th>Size (ID/OD)</th><th>Type / WT</th><th>Depth top</th><th>Depth bottom</th><th>Amount (length)</th></tr></thead><tbody><tr><td>13 1/16"</td><td>concrete</td><td>665.0</td><td>628.0</td><td>37'</td></tr></tbody></table>		Size (ID/OD)	Type / WT	Depth top	Depth bottom	Amount (length)	13 1/16"	concrete	665.0	628.0	37'
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☐ upland ☐ hillside ☒ valley Elevation (if known) <u>662.0'</u>		Perforated or slotted casing? (yes/no) ☒ Perforated / slotted from _____ ft to _____ ft Perforated / slotted from _____ ft to _____ ft																															
Water information Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone Main water-supply zone from _____ ft to _____ ft ☐ seepage well Static water level <u>650.87</u> ft (below / above) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate Pumping water level <u>640.21</u> ft below GL; ☐ tape ☐ airline ☒ E-line ☐ estimate At yield of <u>2180</u> GPM; ☒ orifice ☐ volumetric ☐ estimate Measurements taken at <u>7:00</u> (AM/PM) Date <u>9/9/99</u>		Casing grouted? (yes/no) ☒ Placement method <u>Sprayed on</u> Type _____ Depth Top _____ Depth bottom _____ Amount (vol/wt) _____ <u>Benonite placed on before sinking of Caisson</u>																															
Remarks (including depth of lost drilling fluids, materials, or tools)		Well screen? (yes/no) ☒ <table border="1"><thead><tr><th>Diameter</th><th>Slot size</th><th>Depth Top</th><th>Depth Bottom</th><th>Length</th><th>Material</th></tr></thead><tbody><tr><td>8"</td><td>0.080</td><td>3</td><td>laterals</td><td></td><td>S.S.</td></tr><tr><td></td><td>0.---</td><td>247</td><td>247</td><td>247</td><td></td></tr></tbody></table>		Diameter	Slot size	Depth Top	Depth Bottom	Length	Material	8"	0.080	3	laterals		S.S.		0.---	247	247	247													
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Well use ☐ Domestic ☒ Municipal ☐ Commercial ☐ Livestock ☐ Public supply ☐ Monitoring ☐ Test well ☐ Irrigation ☐ Other _____ (explain)		Well developed? (yes/no) ☒ Explain <u>surging by pumping</u> (pumped, airlifted, bailed) for _____ hrs at _____ GPM.																															
Water quality test? (yes/no) ☒ Date tested <u>10/13/99</u> Tested by <u>Hygienic Laboratory</u>		Pump installed? (yes/no) ☒ Date _____ / _____ / _____ Installer's name _____ Type of pump _____ Depth to intake _____ ft Pump diameter _____ Rated capacity _____ GPM																															
Contractor <u>Reynolds</u> Address <u>4520 N. S.R. 37 Orleans IL</u> Driller <u>Mike Burton</u> Certification no. <u>40560</u>																																	

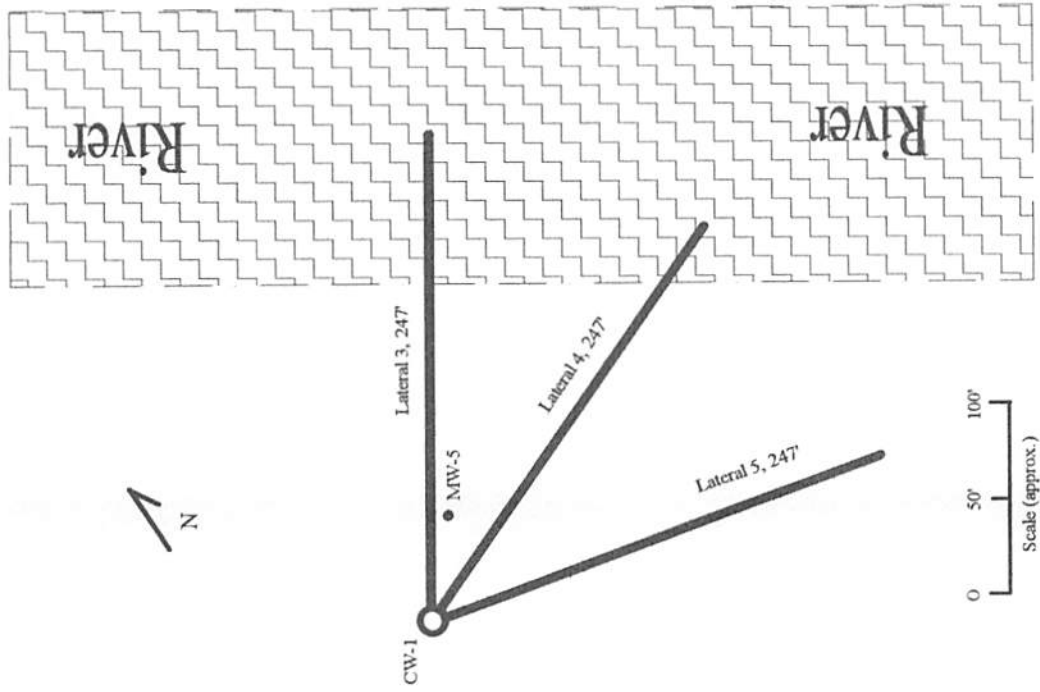
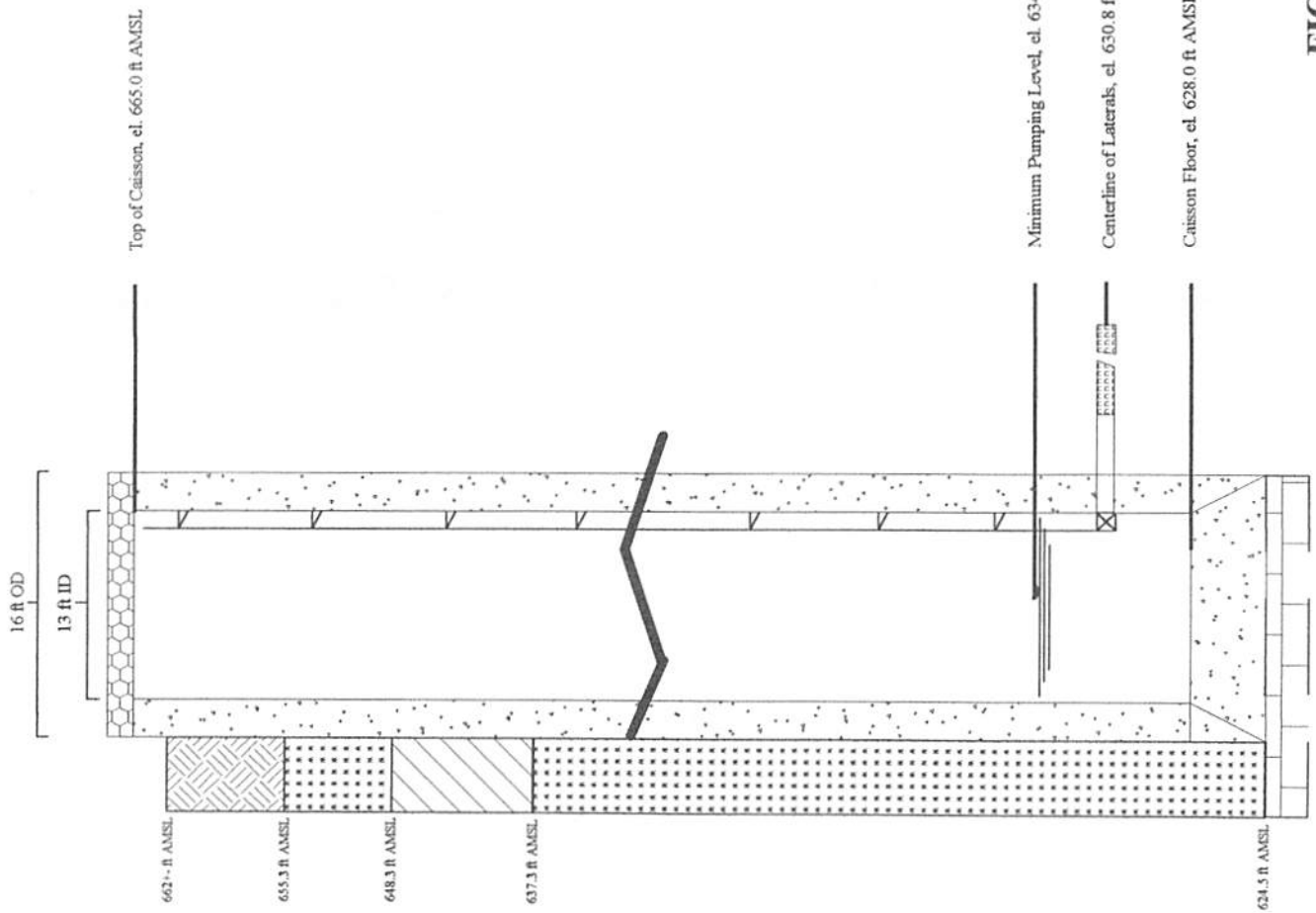


FIGURE 2 - COLLECTOR CW-1 PLAN AND SECTION VIEWS

City of Iowa City, Iowa

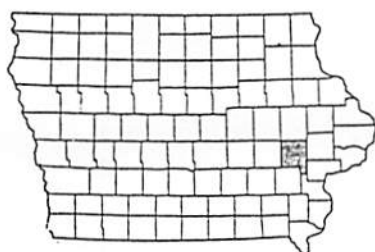
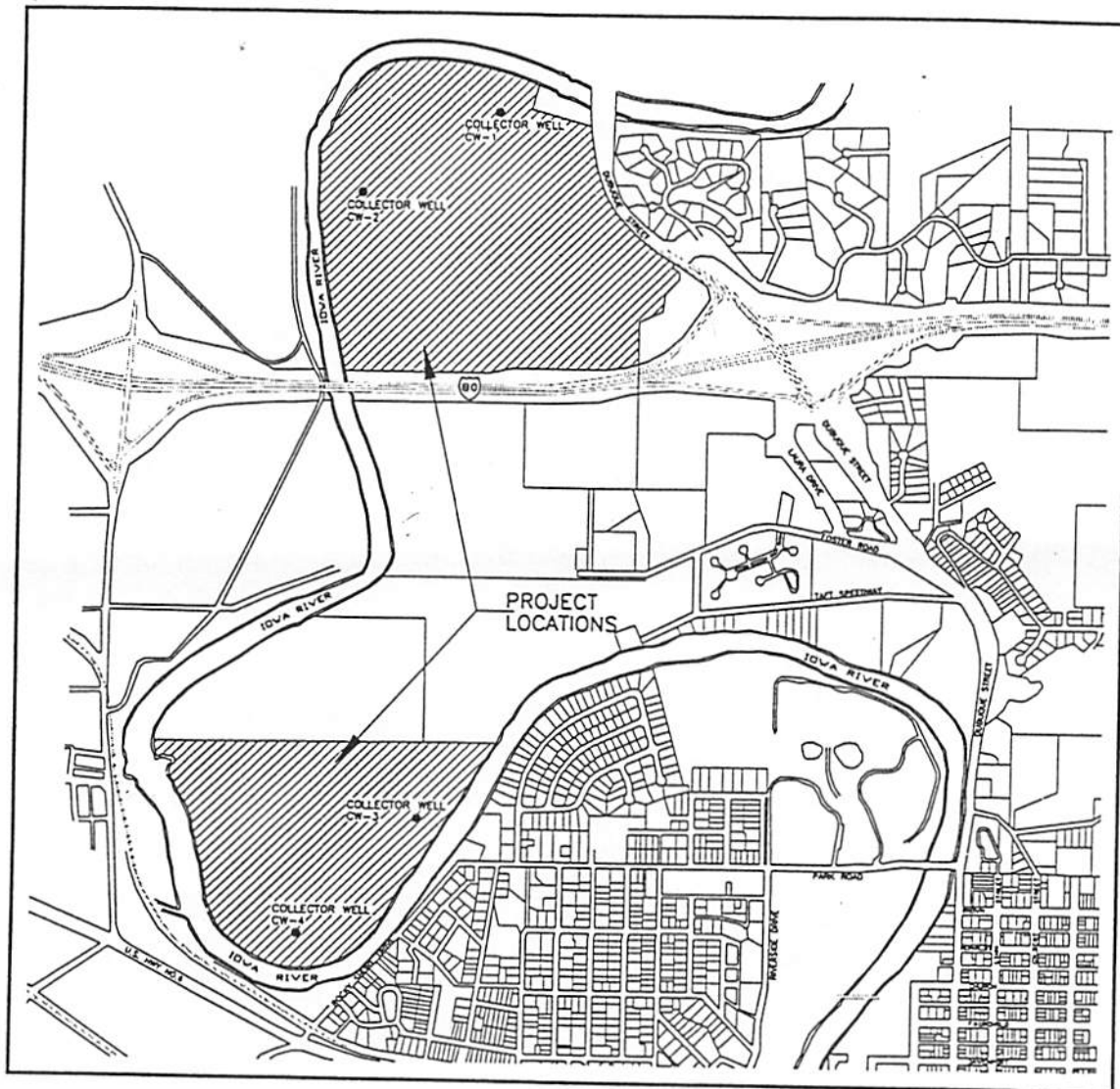


FIGURE 1
VICINITY MAP
 COLLECTOR WELLS - LOWER TERMINUS
 IOWA CITY WATER DIVISION
 IOWA CITY, IOWA 1998



Howard R. Green Company
 CONSULTING ENGINEERS