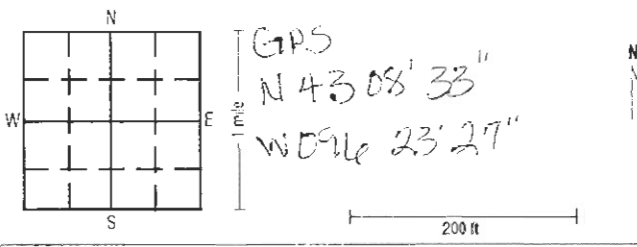


Site identification Property Owner <u>Rural Water System #1</u> Well Number <u>31</u> Address <u>4438 380th St, Hesper, IA 51238</u> Tenant _____ Well Depth <u>43</u> ft Date completed <u>3/17/05</u>					Drill method <input checked="" type="checkbox"/> rotary <input type="checkbox"/> auger <input type="checkbox"/> cable other _____ Hole size <u>10</u> inch from <u>0</u> ft to <u>60</u> ft _____ inch from _____ ft to _____ ft _____ inch from _____ ft to _____ ft _____ inch from _____ ft to _____ ft																																																									
Location County <u>Sioux</u> _____ mi. ^N and _____ mi. ^E of intersection of _____ and _____ <u>SW</u> 1/4 of the <u>SW</u> 1/4 of the <u>SW</u> 1/4 of Sec <u>10</u> TWP <u>96</u> RNG <u>47</u> ^E ^W Show exact location of well in section grid with a dot (•). Sketch map of well location on property.					Record all depth measurements from ground level (GL). Use (+) for above GL measurements. Casing Drive shoe (yes/no) _____ Pitless adapter (yes/no) _____ <table border="1" style="width:100%; border-collapse: collapse;"> <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>5"</td> <td>Steel</td> <td>+3</td> <td>33</td> <td>36</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)	5"	Steel	+3	33	36																																											
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 <p>GPS N 43' 08" 33" W 09' 23" 27"</p> <p>200 ft scale bar</p> <p><input type="checkbox"/> upland <input type="checkbox"/> hillside <input type="checkbox"/> valley Elevation (if known) _____</p>					Perforated or slotted casing? (yes/ <input checked="" type="checkbox"/> no) Perforated / slotted from _____ ft to _____ ft Perforated / slotted from _____ ft to _____ ft																																																									
Formation log <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>5</td> <td>Br</td> <td>Soft</td> <td>Topsoil</td> </tr> <tr> <td>5</td> <td>15</td> <td></td> <td></td> <td>Coarse sand</td> </tr> <tr> <td>15</td> <td>21</td> <td></td> <td></td> <td>Coarse sand w/ gravel</td> </tr> <tr> <td>21</td> <td>30</td> <td></td> <td></td> <td>Coarse sand</td> </tr> <tr> <td>30</td> <td>35</td> <td></td> <td></td> <td>Coarse sand</td> </tr> <tr> <td>35</td> <td>44</td> <td></td> <td></td> <td>Coarse sand</td> </tr> <tr> <td>44</td> <td>50</td> <td>Grey</td> <td></td> <td>Fine sand</td> </tr> <tr> <td>50</td> <td>60</td> <td>Grey</td> <td>Soft</td> <td>Clay</td> </tr> </tbody> </table>					From	To	Color	Hardness	Formation description	0	5	Br	Soft	Topsoil	5	15			Coarse sand	15	21			Coarse sand w/ gravel	21	30			Coarse sand	30	35			Coarse sand	35	44			Coarse sand	44	50	Grey		Fine sand	50	60	Grey	Soft	Clay	Casing grouted? (yes/ <input checked="" type="checkbox"/> no) Placement method <u>Tremie</u> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type</th> <th>Depth Top</th> <th>Depth bottom</th> <th>Amount (vol/wt)</th> </tr> </thead> <tbody> <tr> <td>Bentonite Seal</td> <td>0</td> <td>23</td> <td>10 ft³</td> </tr> </tbody> </table>					Type	Depth Top	Depth bottom	Amount (vol/wt)	Bentonite Seal	0	23	10 ft ³
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use additional sheets as needed					Well screen? (yes/ <input checked="" type="checkbox"/> no) <table border="1" style="width:100%; border-collapse: collapse;"> <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>5"</td> <td>0.040</td> <td>33'</td> <td>43'</td> <td>10'</td> <td>S.S.</td> </tr> <tr> <td>0.---</td> <td>0.---</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Bottom capped (yes/ <input checked="" type="checkbox"/> no) with <u>S.S. Plate</u> Seals / Packers (yes/ <input checked="" type="checkbox"/> no) Kind _____ depth _____ ft Gravel packed (yes/ <input checked="" type="checkbox"/> no) from <u>23</u> ft to <u>43</u> ft type <u>NGC #3</u> amount <u>9 ft³</u>					Diameter	Slot size	Depth Top	Depth Bottom	Length	Material	5"	0.040	33'	43'	10'	S.S.	0.---	0.---																																							
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Remarks (including depth of lost drilling fluids, materials, or tools)					Well developed? (yes/ <input checked="" type="checkbox"/> no) Explain <u>Surge + bailed</u> (pumped, airlifted, bailed) for <u>24</u> hrs at <u>85</u> GPM.																																																									
Well use <input type="checkbox"/> Domestic <input type="checkbox"/> Municipal <input type="checkbox"/> Commercial <input type="checkbox"/> Livestock <input type="checkbox"/> Public supply <input type="checkbox"/> Monitoring <input checked="" type="checkbox"/> Test well <input type="checkbox"/> Irrigation <input type="checkbox"/> Other _____ (explain)					Pump installed? (yes/ <input checked="" type="checkbox"/> no) Date ____/____/____ Installer's name _____ Type of pump _____ Depth to intake _____ ft Pump diameter _____ Rated capacity _____ GPM																																																									
_____					Water information Aquifer: <input checked="" type="checkbox"/> sand / gravel <input type="checkbox"/> limestone <input type="checkbox"/> sandstone Main water-supply zone from <u>33</u> ft to <u>43</u> ft <input type="checkbox"/> seepage well Static water level _____ ft (below / above) GL; <input type="checkbox"/> tape <input type="checkbox"/> airline <input type="checkbox"/> E-line <input type="checkbox"/> estimate Pumping water level _____ ft below GL; <input type="checkbox"/> tape <input type="checkbox"/> airline <input type="checkbox"/> E-line <input type="checkbox"/> estimate At yield of _____ GPM; <input type="checkbox"/> orifice <input type="checkbox"/> volumetric <input type="checkbox"/> estimate Measurements taken at _____ : _____ (AM / PM) Date ____/____/____																																																									
_____					Water quality test? (yes / no) Date tested <u>3/17/05</u> Tested by _____																																																									
_____					Contractor <u>Marcell Company</u> Address <u>15301 Hickman Rd, Waukegan, IA 50265</u> Driller <u>Scott Deemer</u> Certification no. <u>40753</u>																																																									