

WELL RECORD

new

62002

Permit No. 2004-6034

Site identification Property Owner <u>EIkhorn City</u> Well Number <u>18</u> Address <u>EIkhorn, IA</u> Tenant _____ Well Depth <u>48</u> ft Date completed <u>10/06/05</u>				Drill method <input type="checkbox"/> rotary <input type="checkbox"/> auger <input type="checkbox"/> cable other _____ Hole size <u>30</u> inch from <u>0</u> ft to <u>48</u> ft _____ inch from _____ ft to _____ ft _____ inch from _____ ft to _____ ft																																									
Location County _____ _____ mi. ^N and _____ mi. ^E of intersection of _____ and _____ _____ mi. ^S and _____ mi. ^W 1/4 of the _____ 1/4 of the _____ 1/4 of _____ Sec _____ TWP _____ RNG _____ 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/ <input checked="" type="checkbox"/> no) Pitless adapter (<input checked="" type="checkbox"/> yes/ <input type="checkbox"/> 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>12" ID</td> <td>Steel</td> <td>0</td> <td>36'</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)	12" ID	Steel	0	36'	36'																												
Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)																																									
12" ID	Steel	0	36'	36'																																									
				Perforated or slotted casing? (yes/ <input checked="" type="checkbox"/> no) Perforated / slotted from _____ ft to _____ ft Perforated / slotted from _____ ft to _____ ft																																									
<input type="checkbox"/> upland <input type="checkbox"/> hillside <input type="checkbox"/> valley Elevation (if known) _____ 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>2'</td> <td>Black</td> <td></td> <td>topsoil</td> </tr> <tr> <td>2'</td> <td>8'</td> <td>Brown</td> <td></td> <td>clay + sand</td> </tr> <tr> <td>8'</td> <td>32'</td> <td>Grey</td> <td></td> <td>clay</td> </tr> <tr> <td>32'</td> <td>45'</td> <td></td> <td></td> <td>sand, gravel, cobbles</td> </tr> <tr> <td>45'</td> <td>48'</td> <td>Grey</td> <td></td> <td>clay</td> </tr> </tbody> </table>				From	To	Color	Hardness	Formation description	0'	2'	Black		topsoil	2'	8'	Brown		clay + sand	8'	32'	Grey		clay	32'	45'			sand, gravel, cobbles	45'	48'	Grey		clay	Casing grouted? (<input checked="" type="checkbox"/> yes/ <input 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>Portland</td> <td>6'</td> <td>29'</td> <td>102 sacks</td> </tr> </tbody> </table>				Type	Depth Top	Depth bottom	Amount (vol/wt)	Portland	6'	29'	102 sacks
From	To	Color	Hardness	Formation description																																									
0'	2'	Black		topsoil																																									
2'	8'	Brown		clay + sand																																									
8'	32'	Grey		clay																																									
32'	45'			sand, gravel, cobbles																																									
45'	48'	Grey		clay																																									
Type	Depth Top	Depth bottom	Amount (vol/wt)																																										
Portland	6'	29'	102 sacks																																										
_____ use additional sheets as needed Remarks (including depth of lost drilling fluids, materials, or tools)				Well screen? (<input checked="" type="checkbox"/> yes/ <input 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>12"</td> <td>0.80</td> <td>36'</td> <td>48'</td> <td>12'</td> <td>SS</td> </tr> <tr> <td> </td> <td>0.____</td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> Bottom capped (<input checked="" type="checkbox"/> yes/ <input type="checkbox"/> no) with <u>SS plate</u> Seals / Packers (yes/ <input checked="" type="checkbox"/> no) kind _____ depth _____ ft Gravel packed (<input checked="" type="checkbox"/> yes/ <input type="checkbox"/> no) from <u>29</u> ft to <u>48</u> ft type <u>Northern #3</u> amount <u>100 ft³</u>				Diameter	Slot size	Depth Top	Depth Bottom	Length	Material	12"	0.80	36'	48'	12'	SS		0.____																								
Diameter	Slot size	Depth Top	Depth Bottom	Length	Material																																								
12"	0.80	36'	48'	12'	SS																																								
	0.____																																												
Well developed? (<input checked="" type="checkbox"/> yes/ <input type="checkbox"/> no) Explain <u>airlifted, surgeblock + bailed</u> (<input checked="" type="checkbox"/> pumped) (<input checked="" type="checkbox"/> airlifted) (<input checked="" type="checkbox"/> bailed) for <u>9</u> hrs at <u>65</u> GPM.				Pump installed? (<input checked="" type="checkbox"/> yes/ <input type="checkbox"/> no) Date <u>11/15/05</u> Installer's name <u>Tim Gessert</u> Type of pump <u>Goulds Submersible</u> Depth to intake <u>38</u> ft Pump diameter <u>6"</u> Rated capacity <u>60</u> GPM																																									
Water information Aquifer: <input checked="" type="checkbox"/> sand / gravel <input type="checkbox"/> limestone <input type="checkbox"/> sandstone Main water-supply zone from <u>32</u> ft to <u>45</u> ft <input type="checkbox"/> seepage well Static water level <u>16</u> ft (<input checked="" type="checkbox"/> below) (<input type="checkbox"/> above) GL; <input type="checkbox"/> tape <input type="checkbox"/> airline <input checked="" type="checkbox"/> E-line <input type="checkbox"/> estimate Pumping water level <u>30</u> ft below GL; <input type="checkbox"/> tape <input type="checkbox"/> airline <input checked="" type="checkbox"/> E-line <input type="checkbox"/> estimate At yield of <u>70</u> GPM; <input checked="" type="checkbox"/> orifice <input type="checkbox"/> volumetric <input type="checkbox"/> estimate Measurements taken at _____ (AM / PM) Date <u>10/13/05</u>				Water quality test? (<input checked="" type="checkbox"/> yes/ <input type="checkbox"/> no) Date tested <u>10/14/05</u> Tested by <u>Iowa Hygienic Labs</u>																																									
Well use <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)				Contractor <u>Cahoy Pump Service</u> Address <u>Fredericksburg IA 50630</u> Driller <u>Mark Evans</u> Certification no. <u>2392</u>																																									