

Site Identification		Well # 6			
Property Owner <u>City of Granger, Iowa</u> Other ID _____					
Address <u>1906 Main St., Granger, Iowa 50109</u>					
Tenant <u>N/A</u>					
Well Depth <u>116</u> ft Date completed <u>9/16/09</u>					
Location		County <u>Dallas</u>			
_____ mi. N and _____ mi. E of intersection of _____ and _____ _____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RNG _____ E W					
GPS Coordinates (NAD83 datum only) decimal degrees: <u>41.7523</u> N. Latitude <u>93.8192</u> W. Longitude.					
Show exact location of well in section grid with a dot (•). Sketch map of well location on property.					
☐ upland ☐ hillside ☐ valley ☒ level surface Elevation (if known) _____					
Formation log					
From	To	Color	Hardness	Formation description	
<u>0</u>	<u>9</u>			<u>Constructed berm-compacted soil</u>	
<u>9</u>	<u>13</u>	<u>Black</u>		<u>Silty clay</u>	
<u>13</u>	<u>16</u>	<u>Gray</u>		<u>Sandy clay</u>	
<u>16</u>	<u>58</u>	<u>Gray</u>		<u>Clay, sandy, some cobbles</u>	
<u>58</u>	<u>89</u>	<u>Gray-Brown</u>		<u>Sand, fine to medium, some silt, gravel</u>	
<u>89</u>	<u>94</u>	<u>Black</u>		<u>Sand + gravel</u>	
<u>94</u>	<u>116</u>	<u>Gray-Brown</u>		<u>Sand, fine to medium, some cobbles</u>	
<u>116</u>		<u>Gray</u>		<u>Shale</u>	
use additional sheets as needed					
Remarks (including depth of lost drilling fluids, materials, or tools) <u>Well #6 After well was drilled, casing was extended 9' and a berm was constructed; all measurements are from top of finished berm.</u>					
Well use					
☐ Domestic ☒ Heat pump ☐ Commercial ☐ Livestock ☒ Municipal ☐ Monitoring ☐ Test well ☐ Public supply ☐ Other _____ ☐ Irrigation					
Drill method ☒ Rotary ☐ Auger ☐ Cable ☐ other <u>Reverse rotary</u>					
Hole size					
<u>36</u> inch from <u>0</u> ft to <u>116</u> ft		hole size continued _____ inch from _____ ft to _____ ft			
_____ inch from _____ ft to _____ ft		_____ inch from _____ ft to _____ ft			
Record all depth measurements from ground level (GL). Use (+) for above GL measurements.					
Casing					
Drive shoe (yes/no) ☒		Fitness adapter (yes/no) ☒			
Size (ID/OD)	Type / Vt	Depth top	Depth bottom	Amount (length)	
<u>12" I.D.</u>	<u>A53 375 lb/ft</u>	<u>+2</u>	<u>96</u>	<u>98'</u>	
Perforated or slotted casing? (yes/no) ☒					
Perforated / slotted		from _____ ft	to _____ ft		
Perforated / slotted		from _____ ft	to _____ ft		
Casing grouted? (yes/no) ☒ Placement method <u>Gravity</u>					
Type	Depth top	Depth bottom	Amount (vol/wt)		
<u>Next cement</u>	<u>9</u>	<u>26</u>	<u>100 bags</u>		
<u>Bentonite chips</u>	<u>26</u>	<u>31</u>	<u>24 bags</u>		
Well screen? (yes/no) ☒					
Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>12"</u>	<u>0.080</u>	<u>96</u>	<u>116</u>	<u>20'</u>	<u>Stainless Steel</u>
	<u>0.____</u>				
Bottom capped (yes/no) ☒ with <u>Stainless Steel Plate</u>					
Seals / Packers (yes/no) ☒		Knd _____	depth _____ ft		
Gravel packed (yes/no) ☒		from <u>31</u> ft	to <u>116</u> ft		
		type <u>Red Flat #80</u>		amount <u>4,000 lb</u>	
Well developed? (yes/no) ☒					
Explain <u>Air lifted</u>					
(pumped ☒ drilled ☐ bailed) for <u>3</u> hrs at <u>400</u> GPM					
Pump installed? (yes/no) ☒ Date <u>11/25/09</u>					
Installer's name <u>Cahoy Pump Service, Inc.; Tim Gossett</u>					
Type of pump <u>Goulds submersible; 20 H.P.</u> Depth to intake <u>93</u> ft					
Pump diameter <u>7"</u>		Rated capacity <u>400</u> GPM			
		<u>#133 TDH</u>			
Water Information					
Aquifer: ☒ sand/gravel ☐ limestone ☐ sandstone					
Main water-supply zone from <u>96</u> ft to <u>116</u> ft ☐ seepage well					
Static water level <u>39</u> ft (<u>below</u> /above) GL; ☐ tape ☐ airline ☒ B-E-line ☐ estimate					
Pumping water level <u>52</u> ft below GL; ☐ tape ☐ airline ☒ B-E-line ☐ estimate					
At yield of <u>506</u> GPM; ☒ orifice ☐ volumetric ☐ estimate for <u>24</u> hours					
Measurements taken at <u>1:00</u> (AM/PM) ☒ Date <u>9/22/09</u>					
Water quality test? (yes/no) ☒ Date tested <u>11/21/10</u>					
Tested by <u>Cahoy Pump Service; Tom McClaren</u>					
Contractor <u>Cahoy Pump Service, Inc.</u>					
Address <u>411 E. Main St., Frederickburg, Iowa 50630</u>					
Driller <u>Corey Hagen</u> Certification no. <u>9051</u>					

Granger wells #5 = W64065

#6 = W69199

N↑

