

# 62824 WELL RECORD

Iowa Department of Natural Resources - Geological Survey  
109 Trowbridge Hall, Iowa City, IA 52242-1319 PH (319) 335-1575

PWTS Well No. \_\_\_\_\_

PWTS Permit No. \_\_\_\_\_

County Permit No. \_\_\_\_\_

**Site identification** Wapello Rural Well # 7  
 Property Owner Water Association, Inc. Other ID N/A  
 Address 534 Shawl Ave, Ottumwa, Iowa 52501  
 Tenant N/A  
 Well Depth 55 ft Date completed 10/14/04

**Drill method**  rotary  auger  cable  other Reverse Circ. Rotary  
**Hole size** 42 inch from 0 ft to 56 ft hole size continued \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft

**Location** County Keokuk  
 \_\_\_\_\_ mi. <sup>N</sup> and \_\_\_\_\_ mi. <sup>E</sup> of intersection of \_\_\_\_\_ and \_\_\_\_\_  
 \_\_\_\_\_ mi. <sup>S</sup> and \_\_\_\_\_ mi. <sup>W</sup> of intersection of \_\_\_\_\_ and \_\_\_\_\_  
 1/4 of the SE 1/4 of the SW 1/4 of Sec 27 TWP 75N RNG 13W E  
 GPS Coordinates (NAD83 datum only) decimal degrees:  
 \_\_\_\_\_ N. Latitude \_\_\_\_\_ W. Longitude.

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.  
**Casing** Drive shoe (yes  no ) Pitless adapter (yes  no   

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
<u>24" O.D.</u>	<u>500' well</u>	<u>+2</u>	<u>40</u>	<u>42</u>
<u>Pitless Adapter</u>		<u>+11</u>	<u>+2</u>	<u>(In built-up earth berm)</u>

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) \_\_\_\_\_

**Perforated or slotted casing?** (yes  no   
 Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft

**Formation log**

From	To	Color	Hardness	Formation description
<u>0</u>	<u>16</u>	<u>Blue/Brown</u>		<u>Clay</u>
<u>16</u>	<u>20</u>			<u>Medium sand</u>
<u>20</u>	<u>25</u>			<u>Very fine sand</u>
<u>25</u>	<u>35</u>			<u>Sand and gravel with large cobbles</u>
<u>35</u>	<u>45</u>			<u>Coarse sand and gravel</u>
<u>45</u>	<u>50</u>			<u>Coarse sand and gravel, few cobbles</u>
<u>50</u>	<u>55</u>			<u>Medium sand and gravel</u>
<u>55</u>	<u>56</u>			<u>Limestone</u>

use additional sheets as needed

**Casing grouted?** (yes  no  Placement method Tremie pipe

Type	Depth top	Depth bottom	Amount (vol/wt)
<u>Neat cement</u>	<u>0</u>	<u>28</u>	<u>11.7 yards</u>
<u>Bentonite seal</u>	<u>28</u>	<u>30</u>	<u>600 lbs.</u>

**Well screen?** (yes  no   

Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>24"</u>	<u>0.090</u>	<u>40</u>	<u>55</u>	<u>15</u>	<u>#304 stainless steel</u>
<u>0</u>					

 Bottom capped (yes  no ) with Stainless Steel Plate  
 Seals / Packers (yes  no ) kind \_\_\_\_\_ depth \_\_\_\_\_ ft  
 Gravel packed (yes  no ) from 30 ft to 56 ft  
 type #3 amount 12 tons

**Remarks** (including depth of lost drilling fluids, materials, or tools)  
 \_\_\_\_\_

**Well developed?** (yes  no   
 Explain Surged + bailed for 3 hours; Test pumped  
 (pumped, airlifted, bailed) for \_\_\_\_\_ hrs at \_\_\_\_\_ GPM

**Pump installed?** (yes  no  Date 12/29/04  
 Installer's name Cahoy Pump Service  
 Type of pump Submersible Depth to intake 41 ft  
 Pump diameter 9" Rated capacity 425 GPM

**Water information** Aquifer:  sand / gravel  limestone  sandstone  
 Main water-supply zone from 35 ft to 55 ft  seepage well  
 Static water level 8 ft (below / above) GL:  tape  airline  line  estimate  
 Pumping water level 24 ft below GL:  tape  airline  line  estimate  
 At yield of 450 GPM:  orifice  volumetric  estimate for 6 hours  
 Measurements taken at 9:00 (AM, PM) Date 10/27/04

**Water quality test?** (yes  no  Date tested 10/27/04  
 Tested by Cahoy Pump Service

**Well use**

<input type="checkbox"/> Domestic	<input type="checkbox"/> Heat pump	<input type="checkbox"/> Commercial
<input type="checkbox"/> Livestock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Test well	<input checked="" type="checkbox"/> Public supply	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Irrigation	

Contractor Cahoy Pump Service  
 Address 411 E. Main St., Fredericksburg, Iowa 50630  
 Driller Darin Cahoy Certification no. 1786