

#2

# 62819 WELL RECORD

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

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

**Site identification** Wapello Rural Well # 2  
 Property Owner Water Association, Inc. Other ID N/A  
 Address 534 Shawl Ave., Ottumwa, Iowa, 52501  
 Tenant N/A  
 Well Depth 53 ft Date completed 2/17/04

**Location** County Keokuk  
 \_\_\_\_\_ mi. N and \_\_\_\_\_ mi. E of intersection of \_\_\_\_\_ and \_\_\_\_\_  
 \_\_\_\_\_ mi. S and \_\_\_\_\_ mi. W  
 1/4 of the SE 1/4 of the SW 1/4 of Sec. 27 TWP 75N RANG 13W E  
 GPS Coordinates (NAD83 datum only) decimal degrees:  
 \_\_\_\_\_ N. Latitude \_\_\_\_\_ 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
0	16	Blue		Clay
16	26			Medium-coarse sand, small cobbles
26	37			Fine sand
37	41			Medium sand, some gravel
41	52			Coarse sand + gravel with large cobbles
52	53			Large, broken limestone

use additional sheets as needed

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

**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	

**Drill method**  rotary  auger  cable  other Reverse Circ. Rotary  
**Hole size** 4.2 inch from 0 ft to 53 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) Pitless adapter (yes  no)  

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
24" O.D.	500' well	+5	38	43
Pitless Adapter		+14	+5	(In built-up earth berm)

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

**Casing grouted?** (yes  no) Placement method Trompe pipe

Type	Depth top	Depth bottom	Amount (vol/wt)
Neat cement	0	26	11.4 yards
Bentonite seal	26	28	600 lbs.

**Well screen?** (yes  no)  

Diameter	Slot size	Depth top	Depth bottom	Length	Material
24"	0.080	38	53	15	304 Stainless Steel
0					

 Bottom capped (yes  no) with Stainless Steel Plate  
 Seals / Packers (yes  no) kind \_\_\_\_\_ depth \_\_\_\_\_ ft  
 Gravel packed (yes  no) from 28 ft to 53 ft  
 type 42 amount 12 tons

**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 38 ft  
 Pump diameter 9" Rated capacity 425 GPM

**Water information** Aquifer:  sand / gravel  limestone  sandstone  
 Main water-supply zone from 41 ft to 53 ft  seepage well  
 Static water level 3 ft (below / above) GL:  tape  airline  E-line  estimate  
 Pumping water level 25 ft below GL:  tape  airline  E-line  estimate  
 At yield of 460 GPM:  orifice  volumetric  estimate for 7 hours  
 Measurements taken at 3:45 (AM  PM ) Date 5/4/04

**Water quality test?** (yes  no) Date tested 5/4/04  
 Tested by Cahoy Pump Service

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