

62821

WELL RECORD

PWTS Permit No. _____

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

PWTS Well No. _____

County Permit No. _____

Site identification Wapello Rural Well # 4
Property Owner Water Association, Inc. Other ID N/A
Address 534 Shaw Ave., Ottumwa, Iowa 52501
Tenant N/A
Well Depth 55 ft Date completed 10 / 06 / 04

Location County Keokuk
_____ mi. N and _____ mi. E of intersection of _____ and _____
_____ 1/4 of the SE 1/4 of the SW 1/4 of Sec 27 TWP 75 N Rng 13 W 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		Color	Hardness	Formation description
From	To			
0	18	Blue/Brown		Clay
18	20			Medium sand and gravel
20	24			Medium to fine sand and gravel
24	28			Coarse sand and gravel
28	34			Very coarse sand, gravel and large cobbles
34	43			Medium coarse sand and gravel
43	46	Red		Medium sand and gravel
46	55			Medium to coarse sand, gravel, and cobbles
55	55			Limestone

use additional sheets as needed

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

Well use

☐ Domestic	☐ Heat pump	☐ Commercial
☐ Livestock	☐ Municipal	☐ Monitoring
☐ Test well	☒ Public supply	☐ Other _____
	☐ Irrigation	

Drill method ☐ rotary ☐ auger ☐ cable ☒ other Reverse Circ. Rotary

Hole size

42 inch	from 0 ft	to 55 ft	hole size continued
_____ 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" 0.0	500" wall	+1	40	41
Pitless adapter		+10	+1	(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 Tremie pipe

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

Well screen? (yes/no) ☒

Diameter	Slot size	Depth top	Depth bottom	Length	Material
24"	0.080	40	55	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 30 ft to 55 ft

type #2 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 42' 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 9 ft (below/above) GL: ☐ tape ☐ airline ☒ E-line ☐ estimate

Pumping water level 24 ft below GL: ☐ tape ☐ airline ☒ E-line ☐ estimate

At yield of 450 GPM: ☒ orifice ☐ volumetric ☐ estimate for 10 hours

Measurements taken at 5:00 (AM/PM) Date 11 / 11 / 04

Water quality test? (yes/no) ☒ Date tested 11 / 11 / 04

Tested by Cahoy Pump Service

Contractor Cahoy Pump Service

Address 411 E. Main St., Fredericksburg, Iowa 50630

Driller Darin Cahoy Certification no. 1786