

62822 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 Wapeilo RuralWell # 05Property Owner Water Association, Inc. Other ID N/AAddress 537 Shaul Ave., Ottumwa, Iowa 52501Tenant N/AWell Depth 53 ft Date completed 10 / 12 / 04

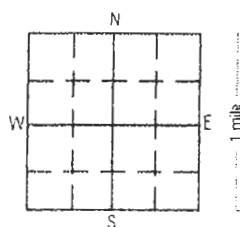
Location

County Keokukmi. N and S 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 _____

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/Brown		Clay
16	19			Medium sand
19	24			Medium to fine sand and gravel
24	27			Medium sand and gravel
27	35			Medium sand, coarse gravel, and cobbles
35	42			Medium sand, coarse gravel, and large cobbles
42	45			Very fine sand and gravel
45	50			Medium gravel
50	52			Large cobbles and medium to coarse gravel
52	53			Cobbles and limestone

use additional sheets as needed

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

Well use

- ☐
- Domestic
-
- ☐
- Livestock
-
- ☐
- Test well

- ☐
- Heat pump
-
- ☐
- Municipal
-
- ☒
- Public supply
-
- ☐
- Irrigation

- ☐
- Commercial
-
- ☐
- Monitoring
-
- ☐
- Other

Drill method

☐ rotary☐ auger☐ cableX Other Reverse Circ. Rotary

Hole size

4.2 inch from 0 ft to 53 ft

_____ inch from _____ ft to _____ ft

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

Casing

Drive shoe (yes/no) noPitless adapter (yes/no) yes

Size (ID/OD) Type / Wt Depth top Depth bottom Amount (length)

24" 0.0. .500" wall +2 38 40Pitless adapter +11 +2 (In built-up earth berm)Perforated or slotted casing? (yes/no) no

Perforated / slotted from _____ ft to _____ ft

Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes/no) yesPlacement method Tremie pipe

Type Depth top Depth bottom Amount (vol/wt)

Net cement 0 26 11 yardsBentonite seal 26 28 500 lbs.Well screen? (yes/no) no

Diameter Slot size Depth top Depth bottom Length Material

24" 0.080 38 53 15 30" Stainless SteelBottom capped (yes/no) yes with Stainless Steel PlateSeals / Packers (yes/no) no kind _____ depth _____ ftGravel packed (yes/no) yes from 28 ft to 53 fttype 4.2 amount 12 tonsWell developed? (yes/no) yesExplain Surged + bailed for 3 hours; test pumped(pumped, airlifted, bailed) for _____ hrs at _____ GPMPump installed? (yes/no) yesDate 12 / 29 / 04Installer's name Cahoy Pump ServiceType of pump Submersible Depth to intake 41 ftPump diameter 9" Rated capacity 425 GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstoneMain water-supply zone from 33 ft to 53 ft ☐ seepage wellStatic water level 11 ft (below/above) GL: ☐ tape ☐ airline ☒ line ☐ estimatePumping water level 24 ft below GL: ☐ tape ☐ airline ☒ line ☐ estimateAt yield of 450 GPM: ☒ orifice ☐ volumetric ☐ estimate for 11 hoursMeasurements taken at 7:00 (AM/PM) Date 10 / 22 / 04Water quality test? (yes/no) yesDate tested 10 / 22 / 04Tested by Cahoy Pump ServiceContractor Cahoy Pump ServiceAddress 411 E. Main St, Fredericksburg, Iowa 50630Driller Darin Cahoy Certification no. 1786