66319

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

WELL RECORD

PWTS Well No. AW-02

PWTS Permit No: 2008-374W

County Permit No. _____

Site identification

Property Owner Poweshiek Water Asso. Other ID _____

Address Hwy 220 South Amana, IA

Tenant _____

Well Depth 150 ft Date completed 10 / 20 / 08

Location

County Iowa

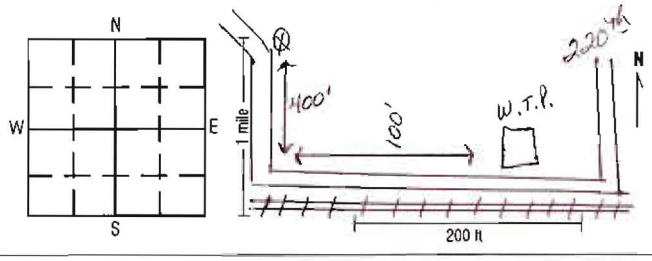
1/4 mi. N/S and 1/4 mi. E/W of intersection of 220th and P St.

_____ 1/4 of the _____ 1/4 of the SE 1/4 of Sec 35 TWP 81 RNG 10 E/W

GPS Coordinates (NAD83 datum only) decimal degrees:

N 41° 46' 52.3" N. Latitude 091° 58' 21.8" 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	10	Blk	S	Top Soil
10	20	Brn	S	Sandy Clay
20	30	Brn	S	Silty Sand
30	85	Brn	S	Fine Sand
85	100	Brn	S	Med. Sand
100	120	Brn	S	Sand & Gravel
120	140	Brn	S	Med Sand
140	150	Brn	S	Fine-Med. Sand
				use additional sheets as needed

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

Well drilled at 15° angle

Well use

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

Drill method

☒ rotary ☐ auger ☐ cable other _____

Hole size

24 inch from 0 ft to 150 ft

_____ inch from _____ ft to _____ 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)
12"	A53/49.56	150'11"	130	141

Perforated or slotted casing? (yes / no)

Perforated / slotted from _____ ft to _____ ft

Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes / no)

Placement method _____

Type	Depth top	Depth bottom	Amount (vol/wt)
Bentonite	40	118	cu ft.

Well screen? (yes / no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
12"	040	130	150	20	stainless
	0.___				

Bottom capped (yes / no) with stainless

Seals / Packers (yes / no) kind _____ depth _____ ft

Gravel packed (yes / no) from 150 ft to 120 ft

type #40 well pack amount 30 cu. ft.

Well developed? (yes / no)

Explain pumped & airlift

(pumped, airlifted, bailed) for 17 hrs at 150 GPM

Pump installed? (yes / no)

Date ____ / ____ / ____

Installer's name _____

Type of pump _____ Depth to intake _____ ft

Pump diameter _____ Rated capacity _____ GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone

Main water-supply zone from 130 ft to 150 ft ☐ seepage well

Static water level 68 ft (below / above) GL; ☒ tape ☐ airline ☐ E-line ☐ estimate

Pumping water level 103 ft below GL; ☒ tape ☐ airline ☐ E-line ☐ estimate

At yield of 230 GPM; ☐ orifice ☐ volumetric ☒ estimate for 4 hours

Measurements taken at 8:00-12:00 (AM / PM) Date 11 / 24 / 08

Water quality test? (yes / no)

Date tested ____ / ____ / ____

Tested by owner testing at start up

Contractor STEFFL WELL DRILLING

Address WILMAR, MN

Driller Tony Traut Certification no. 5280

Send original form to: **Iowa Department of Natural Resources – Geological Survey**

Make photocopies for: **Well Contractor, Customer, and County Health Department**