66318

WELL RECORD

PWTS Well No. AW-01

PWTS Permit No. 2008-374W

County Permit No. _____

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

Site identification

Property Owner Poweshiek Water Asso. Other ID _____

Address Hwy 220 South Amana, IA

Tenant _____

Well Depth 154 ft Date completed 10 / 20 / 08

Location

County Iowa

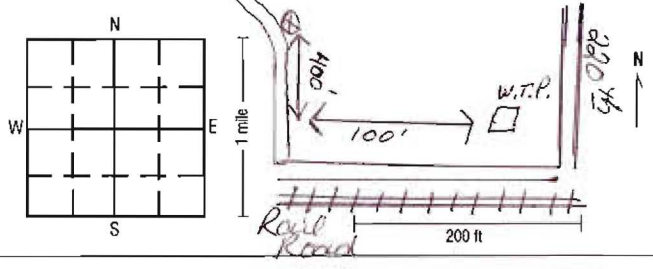
1/4 mi. (N) (S) and 1/4 mi. (E) (W) of intersection of 220th and P St.

_____ 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:

41° 46' 42.7 N. Latitude 091° 58' 15.1 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	5	Blk	S	Top Soil
5	15	Brn	S	Sandy Clay
15	30	Brn	S	Silty Sand
30	40	Brn	S	Silty Sand & Clay
40	85	Brn	S	Fine Silty Sand
85	110	Brn	S	Sand
110	125	Brn	S	Sand w/gravel
125	133	Brn	S	Sand w/gravel
133	138	Gray	S	Clay
138	150	Brn	S	Sand & Gravel
150	152	Brn	S	Sand
152	153	Brn	S	Fine Sand
153	154	Brn	S	Sand
154		Gry/Brn	S	Gravel & Rocks, Clay
				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

30 inch from 0 ft to 40 ft
24 inch from 40 ft to 154 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	+ 10'	137	147'

Perforated or slotted casing? (yes / (no))

Perforated / slotted from _____ ft to _____ ft
Perforated / slotted from _____ ft to _____ ft

Casing grouted? ((yes) / no) Placement method pumped/tremmie

Type	Depth top	Depth bottom	Amount (vol/wt)
Bentonite	127	35	50 cu. ft.

Well screen? (yes / no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
12"	0.40	137	154	17'	stainless
	0.___				

Bottom capped ((yes) / no) with stainless
Seals / Packers (yes (no) kind _____ depth _____ ft
Gravel packed ((yes) / no) from 154 ft to 127 ft
type #40 well pack amount 30 cu. ft.

Well developed? ((yes) / no)

Explain pumped and 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 137 ft to 154 ft ☐ seepage well
Static water level 71 ft (below / above) GL; ☒ tape ☐ airline ☐ E-line ☐ estimate
Pumping water level 117 ft below GL; ☒ tape ☐ airline ☐ E-line ☐ estimate
At yield of 200 GPM; ☐ orifice ☐ volumetric ☒ estimate for 5 hours
Measurements taken at 8:00 1:00 (AM / PM) Date 11 / 16 / 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**