WELL RECORD 63978

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

Property Owner Regional Water Other ID Well # N-4

Address 108 Highway 59, Avoca, Iowa 51521

Tenant N/A

Well Depth 35 ft Date completed 6 / 29 / 07

Location

County Shelby

_____ mi. N/S and _____ mi. E/W of intersection of _____ and _____

_____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RNG _____ E/W

GPS Coordinates (NAD83 datum only) decimal degrees:

41° 30.960 N. Latitude 95° 20.683 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) 1142

Formation log

From	To	Color	Hardness	Formation description
0	4			Topsoil
4	15	Gray		Clay
15	19	Gray		Medium sand
19	22			Medium to coarse sand + gravel
22	25			Med/coarse sand + gravel with cobbles
25	31			Fine to medium sand, fine to medium gravel
31	35			Sand; medium to coarse gravel with cobbles
35	35'6"	Gray		Hard clay

use additional sheets as needed

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

Drilled reverse-circulation rotary

Well use

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

Drill method

☒ rotary ☐ auger ☐ cable other _____

Hole size

32 inch from 0 ft to 35 ft

_____ inch from _____ ft to _____ ft

_____ inch from _____ ft to _____ 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)
8" I.D.			29	
16"-8" Reducer		29	30	

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)
Cement grout		20	
Bentonite seal	20	22	900 lbs.

Well screen? (yes / no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
16"	0.100	30	35	5'	Stainless steel
	0.____				

Bottom capped (yes / no) with Stainless Steel Plate

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

Gravel packed (yes / no) from 35 ft to 22 ft

type Red Flint #90 amount 8,000 lbs.

Well developed? (yes / no)

Explain Air-lifted for 1 hour; test-pumped for 48 hours

(pumped, airlifted, bailed) for 48 hrs at 126 GPM

Pump installed? (yes / no)

Date 8 / 15 / 07

Installer's name Cahoy Pump Service

Type of pump Submersible Depth to intake 29 ft

Pump diameter 4" Rated capacity 77 GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone

Main water-supply zone from 30 ft to 35 ft ☐ seepage well

Static water level 12 ft (below / above) GL: ☐ tape ☐ airline ☒ E-line ☐ estimate

Pumping water level 21 ft below GL: ☐ tape ☐ airline ☒ E-line ☐ estimate

At yield of 126 GPM: ☒ orifice ☐ volumetric ☐ estimate for 48 hours

Measurements taken at 5:30 (AM / PM) Date 7 / 3 / 07

Water quality test? (yes / no)

Date tested ____ / ____ / ____

Tested by _____

Contractor

Contractor Cahoy Pump Service

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

Driller Mark Claassen Certification no. 1899

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

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