65303

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

Property Owner City of Anita, Iowa Other ID _____

Address 828 Main St, Anita, Iowa 50020-0426

Tenant N/A

Well Depth 236 ft Date completed 4 / 28 / 08

Location

County Cass

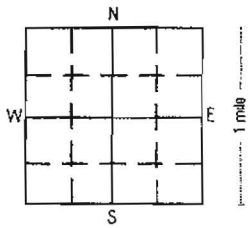
_____ mi. N/S and _____ mi. E/W of intersection of _____ and _____

NE 1/4 of the NE 1/4 of the SW 1/4 of Sec 21 TWP 77 RNG 34 E/W

GPS Coordinates (NAD83 datum only) decimal degrees:

41.4524 N. Latitude 094 7699 W. Longitude

Show exact location of well in section grid with a dot (•) Sketch map of well location on property.



N

☐ upland ☐ hillside ☐ valley ☒ level surface Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	11			Loess
11	26	Gray/ Yellow		Clay
26	32			Sand + gravel, clay streaks
32	118			Clay w/ sand + gravel, cobbles at 88
118	179	Blue/ Brown		Clay w/ sand + gravel, cobbles at 131'
179	187			Fine sand; boulder at 180'
187	191	White		Clay (hard drilling)
191	199	White		Sand
199	203	Gray		Clay
203	210	white		Clay w/ fine sand
210	232			Fine sand
232	238	Orange		Shale

use additional sheets as needed

Remarks (including depth of lost drilling fluids, materials, or tools)
well #2008-4

Well use

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

Drill method

☐ rotary ☐ auger ☐ cable other Reverse Rotary

Hole size

28 inch from 0 ft to 236 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)
16" O.D.		+2	217	219

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

Type	Depth top	Depth bottom	Amount (vol/wt)
Neat cement	5	170	710 bags
Bentonite seal	170	176	35 bags

Well screen? (yes / no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
16"	0.030	217	236	19	
	0.___				

Bottom capped (yes / no) with Stainless Steel Plate

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

Gravel packed (yes / no) from 176 ft to 236 ft

type Red Flint #30 amount 24,000 lbs.

Well developed? (yes / no)

Explain Pumped

(pumped / airlifted, bailed) for 5 hrs at _____ 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 217 ft to 236 ft ☐ seepage well

Static water level 176 ft (below / above) GL: ☐ tape ☐ airline ☒ E-line ☐ estimate

Pumping water level 202 ft below GL: ☐ tape ☐ airline ☒ E-line ☐ estimate

At yield of 54 GPM: ☒ orifice ☐ volumetric ☐ estimate for 5 hours

Measurements taken at 3:30 (AM / PM) Date 6 / 19 / 08

Water quality test? (yes / no)

Date tested ___ / ___ / ___

Tested by _____

Contractor Cahoy Pump Service, Inc.

Address 411 E. Main St, Fredericksburg, Iowa 50630

Driller Darin Cahoy Certification no. 1786

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

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