

65514

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. 2171071

County Permit No. _____

Site Identification

Property Owner City of Spencer, Iowa Other ID _____

Address 712 Grand Avenue, Spencer, Iowa 51301

Tenant: N/A

Well Depth 76.5 ft Date completed 5 / 20 / 08

Location County Clay

_____ mi. ^N and _____ mi. ^E of intersection of _____ and _____
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of the _____ Sec _____ TWP _____ RNG _____ E
 _____ W

GPS Coordinates (NAD83 datum only) decimal degrees:
43.16635° N. Latitude 095.20750° 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) 1351 ft.

Formation log

From	To	Color	Hardness	Formation description
0'	2'			Topsoil
2'	6'			Medium sand + topsoil
6'	28'			Medium sand + gravel
28'	36'			Soft clay
36'	39'			Coarse gravel Coarse gravel, med. sand
39'	45'			Fine to med. sand
45'	56'			Gray fine to medium sand with gravel
56'	75'			Gray fine to medium sand with gravel and small pebbles
75'	76' 6"			Gray clay

use additional sheets as needed

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

Well use

<input type="checkbox"/> Domestic	<input type="checkbox"/> Heat pump	<input type="checkbox"/> Commercial
<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Municipal	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Test well	<input type="checkbox"/> Public supply	<input type="checkbox"/> Other
	<input type="checkbox"/> Irrigation	

Drill method rotary auger cable other Reverse Rotary

Hole size

30 inch from 0 ft to 76.5 ft hole size continued _____ inch from _____ ft to _____ ft

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

Casing Drive shoe (yes no) Piless adapter (yes no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
<u>16 OD</u>	<u>453B steel</u>	<u>+2</u>	<u>56.5</u>	<u>59' 10"</u>

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)
<u>Bentonite seal</u>	<u>30'</u>	<u>35'</u>	
<u>neat cement</u>	<u>2.5'</u>	<u>30'</u>	

Well screen? (yes no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>20'</u>	<u>0.80</u>	<u>56.5</u>	<u>76.5</u>		
	<u>0._____</u>				

Bottom capped (yes no) with stainless steel plate

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

Gravel packed (yes no) from 76.5" ft to 35' ft
 type 90 slot Red Hat amount 18,000

Well developed? (yes no)

Explain Art lifted

(pumped, artified, bailed) for 4 hrs at 800 GPM

Pump installed? (yes no) Date 7 / 30 / 1

Installer's name Tony Thein - Cahoy Pump Service

Type of pump Grundfos Depth to intake 65 ft

Pump diameter 8" Rated capacity 800 GPM

Water information Aquifer: sand / gravel limestone sandstone

Main water-supply zone from 56.5 ft to 76.5 ft seepage well

Static water level 112.5 ft (below above) GL: tape airline E-line estimate

Pumping water level 24 ft below GL: tape airline E-line estimate

At yield of 900 GPM: orifice volumetric estimate for 72 hours

Measurements taken at 6:00 (AM/PM) Date 6 / 1 / 08

Water quality test? (yes no) Date tested 1 / 1 /

Tested by _____

Contractor Cahoy Well and Pump Service

Address 411 E. main Fredericksburg, IA 50630

Driller Darin Cahoy Certification no. 1786