

66425

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 Council Bluffs City Water Works Other ID Well # 08-2
 Address 2000 North 25th St, Council Bluffs, Iowa
 Tenant N/A
 Well Depth 98 ft Date completed 12/3/08

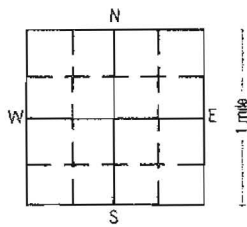
Location

County Pottawattamie
 _____ mi. N and _____ mi. E of intersection of _____ and _____
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RANG _____ E _____ W _____

GPS Coordinates (NAD83 datum only) decimal degrees:

41.192117 N. Latitude 95.878317 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			Fine silty sand
10	50			Fine sand
50	54			Fine to medium sand
54	64			Medium to coarse sand; few cobbles
64	70			Coarse sand and gravel; coal streaks
70	91			Medium to coarse sand; gravel
91	99			Medium to coarse sand and gravel; cobbles
99				Limestone

use additional sheets as needed

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

Well use

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

Drill method

☐ rotary ☐ auger ☐ cable other Reverse Rotary

Hole size

hole size continued
36 inch from 0 ft to 99 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

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
<u>24" O.D.</u>	<u>A-53 500 wall</u>	<u>+4</u>	<u>63</u>	<u>67</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 Tremie

Type	Depth top	Depth bottom	Amount (vol/wt)
<u>Neat cement</u>	<u>0</u>	<u>20</u>	<u>82 bags</u>
<u>Bentonite seal</u>	<u>20</u>	<u>30</u>	<u>42 bags</u>

Well screen? (yes/no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>24"</u>	<u>0.100</u>	<u>63</u>	<u>98</u>	<u>35</u>	<u>stainless steel</u>

Bottom capped (yes/no) with Stainless steel plate

Seals / Packers (yes/no) kind _____ depth _____ ft
 Gravel packed (yes/no) from 30 ft to 98 ft
 type Red Flint #90 amount 40,000 lbs

Well developed? (yes/no)

Explain Test pumped
 (pumped, airlifted, bailed) for 72 hrs at 1461 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 ☐ sandstoneMain water-supply zone from 63 ft to 98 ft ☐ seepage wellStatic water level 15 ft (below) above) GL: ☐ tape ☐ airline ☒ E-line ☐ estimatePumping water level 51 ft below GL: ☐ tape ☒ airline ☐ E-line ☐ estimateAt yield of 1461 GPM: ☒ orifice ☐ volumetric ☐ estimate for 72 hoursMeasurements taken at 10:00 (AM) (PM) Date 3/4/09

Water quality test? (yes/no)

Date tested 3/4/09Tested by Council Bluffs Water Works

Contractor Cahoy Pump Service, Inc.
 Address 411 E. Main St, Frederickburg, Iowa 50630
 Driller Tony Thein Certification no. 8294