

66428

## 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 08-3RAddress 2000 North 25<sup>th</sup> St, Council Bluffs, Iowa

Tenant \_\_\_\_\_

Well Depth 100 ft Date completed 12/6/08

## Location

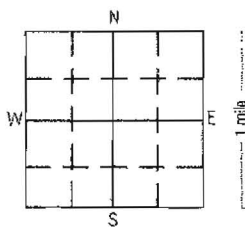
County Pottawattamie\_\_\_\_\_ mi. <sup>N</sup> and \_\_\_\_\_ mi. <sup>E</sup> of intersection of \_\_\_\_\_ and \_\_\_\_\_

\_\_\_\_\_ 1/4 of the \_\_\_\_\_ 1/4 of the \_\_\_\_\_ 1/4 of Sec \_\_\_\_\_ TWP \_\_\_\_\_ RANG \_\_\_\_\_ E \_\_\_\_\_ W \_\_\_\_\_

GPS Coordinates (NAD83 datum only) decimal degrees:

41.191133 N. Latitude 95.880967 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    | 39  |       |          | Fine sand                                 |
| 39   | 45  |       |          | Fine to medium sand                       |
| 45   | 48  |       |          | Medium sand with gray clay                |
| 48   | 51  |       |          | Gray clay                                 |
| 51   | 55  |       |          | Fine to medium sand with clay             |
| 55   | 80  |       |          | Medium to coarse sand and gravel; pebbles |
| 80   | 85  |       |          | Medium sand                               |
| 85   | 100 |       |          | Coarse sand and gravel, large pebbles     |
| 100  | 101 |       |          | Sand, gravel, cobbles, and boulders       |

use additional sheets as needed

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

## 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

hole size continued

36 inch from 0 ft to 101 ft \_\_\_\_\_ 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)

24" 0.0 A-53 500 lb-ft +3 65 68

## 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 0 20 52 bagsBentonite seal 20 30 48 bags

## Well screen? (yes/no) \_\_\_\_\_

Diameter Slot size Depth top Depth bottom Length Material

24" 0.090 65 100 35 Stainless Steel

\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

Bottom capped (yes/no) with Stainless steel plate

Seals / Packers (yes/no) kind \_\_\_\_\_ depth \_\_\_\_\_ ft

Gravel packed\* (yes/no) from 30 ft to 100 fttype Red Flint #90 amount 44,000 lbs.

## Well developed? (yes/no) \_\_\_\_\_

Explain Test pumped(pumped) airlifted, bailed) for 74 hrs at 1445 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 65 ft to 100 ft ☐ seepage wellStatic water level 12 ft (below/above) GL. ☐ tape ☐ airline ☒ E-line ☐ estimatePumping water level 42 ft below GL: ☐ tape ☒ airline ☐ E-line ☐ estimateAt yield of 1445 GPM: ☒ orifice ☐ volumetric ☐ estimate for 74 hoursMeasurements taken at 10:00 (AM/PM) Date 2/17/09

## Water quality test? (yes/no) \_\_\_\_\_

Date tested 2/17/09Tested by Council Bluffs Water WorksContractor Cahoy Pump Service, Inc.Address 411 E. Main St, Frederickburg, Iowa 50630Driller Tony Thein Certification no. 8294