

WELL RECORD

PWTS Well No. WL05

75010

PWTS Permit No. 2010-0359W

County Permit No. _____

PROJECT # W2006-0913

Site identification

Property Owner CITY OF NEW SHARON Other ID WELL 4-09

Address 101 S. MAIN ST., P.O. Box 507

Tenant CITY OF NEW SHARON

Well Depth 81 ft Date completed 09 / 14 / 2011

Location

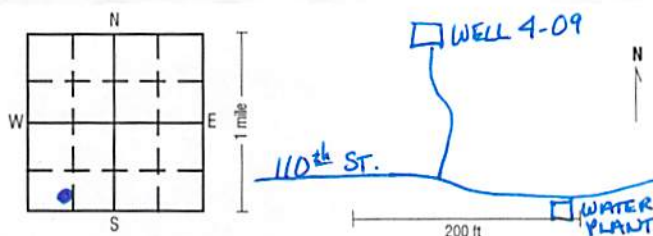
County MAHASKA

0.25 mi. N and 0.7 mi. E of intersection of HWY 146 and 110th ST.
SE 1/4 of the SW 1/4 of the SW 1/4 of Sec 6 TWP 77N RNG 15 E

GPS Coordinates (NAD83 datum only) decimal degrees:

41 49.5571 N. Latitude -92 687991 W. Longitude.

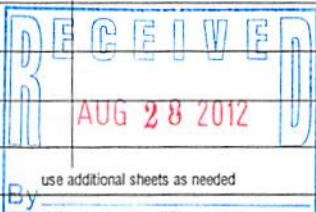
Show exact location of well in section grid with a dot (•). Sketch map of well location on property.



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

Formation log

From	To	Color	Hardness	Formation description
0	3'	Black		TOPSOIL
3'	17'	GRAY-BROWN		SILTY CLAY
17'	21'	GRAY		SILTY-SANDY CLAY W/GRAVEL
21'	37'	GRAY		MED-COARSE SAND + GRAVEL
37'	44'	GRAY		MED-FINE SAND W/COARSE
44'	49'	GRAY		FINE SANDY-SILTY CLAY W/SAND
49'	63'	GRAY		MED-FINE SAND W/COARSE
63'	65'	GRAY		MED-COARSE SAND + GRAVEL
65'	72'	GRAY		MED-COARSE SAND + GRAVEL
72'	73'	GRAY		LIMESTONE



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 CIRCULATION

Hole size

42 inch from 0 ft to 74 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)
<u>12.75" O.D.</u>	<u>49.61 #1F</u>	<u>+1'</u>	<u>57'</u>	<u>58'</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 PRESSURE TREMIE

Type	Depth top	Depth bottom	Amount (vol/wt)
<u>NEAT CEMENT</u>	<u>1'</u>	<u>51'</u>	<u>18 CYD</u>

Well screen? (yes/no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>12"</u>	<u>0.070"</u>	<u>57'</u>	<u>72'</u>	<u>15'</u>	<u>SST</u>

Bottom capped (yes/no) _____ with SST PLATE

Seals / Packers (yes/no) _____ kind BENTONITE depth 51'-52' ft

Gravel packed (yes/no) _____ from 52' ft to 74' ft

type NORTHERN #2 amount 10 TONS

Well developed? (yes/no)

Explain SWABBED, BAILED + SURGE PUMPED

(pumped) (airlifted) (bailed) for 12 hrs at 100-300 GPM

Pump installed? (yes/no)

Date 11 / 30 / 11

Installer's name DOOLING / CARLISLE

Type of pump SUBMERSIBLE Depth to intake 65 ft

Pump diameter 7" Rated capacity 200 GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone

Main water-supply zone from 49 ft to 72 ft ☐ seepage well

Static water level 17 ft (below/above) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

Pumping water level 43 ft below GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

At yield of 195 GPM; ☒ orifice ☐ volumetric ☐ estimate for 24 hours

Measurements taken at 7:00 (AM/PM) Date 09 / 14 / 12

Water quality test? (yes/no)

Date tested _____ / _____ / _____

Tested by _____

Contractor LWAYNE CHRISTENSEN COMPANY

Address 3150 SE GATEWAY DRIVE, STE. B, GRIMES, IA

Driller MARK LESLIE Certification no. 3684

