

**Site identification** WLO4  
Property Owner City of Albert City Well Number 4  
Address 420 Cherry St. Albert City, IA  
Tenant \_\_\_\_\_  
Well Depth 192 ft Date completed 11/3/2010

**Location** County Buena Vista  
1/2 mi. N and 200' mi. E of intersection of C29 and N19  
SW 1/4 of the SW 1/4 of the NW 1/4 of Sec. 14 TWP 92 RRG 35 W  
GPS Coordinates (NAD83 datum only) decimal degrees:  
42.78598 N. Latitude 94.95240 W. Longitude

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

Well # 3 Well # 4  
Shelter House

☐ upland ☐ hillside ☐ valley ☐ level surface Elevation (if known) \_\_\_\_\_

**Formation log**

From	To	Color	Hardness	Formation description
0	2	Black		Topsoil
2	6	Yellow		Clay
6	9	Gray		Clay
9	15	Yellow		Clay
15	90	Blue		Clay
90	115			Rocky Blue Clay
115	135	Blue		Clay & Fine Sand
135	140	Blue		Clay
140	161			Sand & some gravel
161	167			Blue Clay
167	170			Fine Sand & gravel
170	192			Coarse Gravel
192				Blue 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 ☐ case ☐ other \_\_\_\_\_  
**Hole size**  
14 inch from 0 ft to 192 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 ☐ Pileless adapter (yes ☒ no ☐  
Size (ID/OD) Type / Wt Depth top Depth bottom Amount (length)

8" ID	PVC/SDR 21	6'	177'	171'
-------	------------	----	------	------

**Perforated or slotted casing?** (yes ☒ no ☐  
Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft

**Casing grouted?** (yes ☒ no ☐ Placement method Trimme

Type	Depth top	Depth bottom	Amount (vol/wt)
BenSeal Grout Surface		162'	975 gallons

**Well screen?** (yes ☒ no ☐  
Diameter Slot size Depth top Depth bottom Length Material

8" P.S.	0.040	177'	192'	15'	Stainless Steel
---------	-------	------	------	-----	-----------------

Bottom capped (yes ☒ no ☐ with S.S. Plate Bottom  
Seals / Packers (yes ☒ no ☐ kind Hole Plug depth 162'-165' ft  
Gravel packed (yes ☒ no ☐ from 165' ft to 192' ft  
type #60 Red Flint amount 3000 #

**Well developed?** (yes ☒ no ☐  
Explain Jettied, Air-lifted & Pumped  
(pumped ☒ air-lifted ☒ bailed) for 24 hrs at 225 GPM

**Pump installed?** (yes ☒ no ☐ Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Installer's name Milford Well Service  
Type of pump Grundfos - Submersible Depth to intake 89 ft  
Pump diameter 6" Rated capacity 200 gpm GPM

**Water information** Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone  
Main water-supply zone from 177 ft to 192 ft ☐ seepage well  
Static water level 39' 4" (below/above) GL; ☐ tape ☐ airline ☒ estimate  
Pumping water level 43' 11" below GL; ☐ tape ☐ airline ☒ estimate  
At yield of 275 GPM, ☐ orifice ☒ volumetric ☐ estimate for 14 hours  
Measurements taken at 10:37 AM Date 10/13/10

**Water quality test?** (yes ☒ no ☐ Date tested \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Tested by Mangold Environmental Testing

Contractor Middendorff Well Co., Inc.  
Address Sioux Rapids, IA 50585  
Driller Gary Wernant - Craig Certification no. 6669