

WELL RECORD

03042

PWTS Permit No. 2004-311W

Iowa Department of Natural Resources – Geological Survey
109 Trowbridge Hall, Iowa City, IA 52242-1319 PH (319) 335-1575

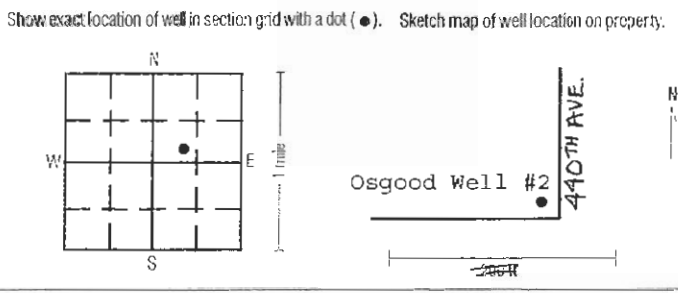
PWTS Well No. _____

County Permit No. _____

Site identification
 Property Owner Clay Regional Water Other ID Well #2
 Address 1301 38th Street, Spencer, IA 51301
 Tenant Clay Regional Water
 Well Depth 40 ft Date completed 06 / 16 / 05

Location County Palo Alto
1/2 mi. ^N and 1/16 mi. ^E of intersection of 300th St and 440th Ave.
SE 1/4 of the SW 1/4 of the NE 1/4 of Sec 22 TWP 97 RNG 33

GPS Coordinates (NAD83 datum only) decimal degrees:
 _____ N. Latitude _____ W. Longitude.



upland hillside valley level surface Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	2	Brown		clay
2	22	Gray		Coarse sand w/gravel
22	40	Gray		Coarse sand w/gravel

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 type="checkbox"/> Municipal	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Test well	<input checked="" type="checkbox"/> Public supply	<input type="checkbox"/> Other <u>Rural Water</u>
	<input type="checkbox"/> Irrigation	System _____

Drill method rotary auger cable other Reverse

Hole size hole size continued

<u>20</u> inch from <u>0</u> ft to <u>40</u> 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)
<u>12"</u>	<u>0.375"</u>	<u>3'</u>	<u>30'</u>	<u>33'</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>4'</u>	<u>19'</u>	<u>1.5 cyd</u>

Well screen? (yes/no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>12"</u>	<u>0.100</u>	<u>30'</u>	<u>40'</u>	<u>10'</u>	<u>SST</u>

Bottom capped (yes/no) with SST Plate Attached

Seals / Packers (yes/no) kind Bentonite depth 19-20 ft

Gravel packed (yes/no) from 20 ft to 40 ft
 type Northern #3 amount 3 Tons

Well developed? (yes/no)

Explain Surge block, bailer, rawhiding

pumped airlifted bailed for 4 hrs at 500 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 sandstone

Main water-supply zone from 11 ft to 40 ft seepage well

Static water level 8.5 ft below above GL: tape airline E-line estimate

Pumping water level 14.7 ft below GL: tape airline E-line estimate

At yield of 629 GPM; orifice volumetric estimate for 72 hours

Measurements taken at 3 : 30 (AM/PM) Date 08 / 11 / 05

Water quality test? (yes/no) Date tested 08 / 11 / 05

Tested by Clay Regional Water Association

Contractor Layne-Western

Address 5600 Gateway Drive, Suite B, Grimes, IA

Driller Mark Leslie Certification no. 3684