

WELL RECORD

72344

 PWTS Permit N 20100129Iowa Department of Natural Resources Geological Survey Bureau
109 Trowbridge Hall Iowa City, Ia. 52242-1319 PH (319) 335-1575

PWTS Well No. _____

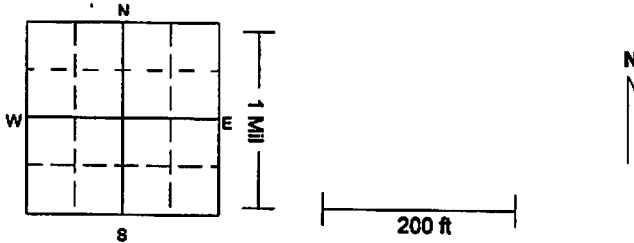
County Permit No _____

Site Identification
 Property Owner: CITY OF CLARE WELL #3 Other ID: _____
 Address 429 E FRONT ST. CLARE, IA 50524
 Tenant _____
 Well Depth: 275 ft Date Completed: 4/8/2010
LocationCounty WEBSTER COUNTY HEALTH DEPT
 _____ mi. ^N/_S and _____ mi. ^E/_W of intersection of _____ and _____
 1/4 of the _____ 1/4 of the NW 1/4 of Sec 25 TW 90N RN 30 E W

GPS Coordinates (NAD83 datum only) decimal degrees:

_____ N. Latitude _____ 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	12			TILL
12	18			SAND
18	95	BLUE		CLAY
95	130	YELLOW		CLAY
130	140	MUDDY		SAND
140	168			SANDSTONE
168	182	BLUE		CLAY
182	191			SHALE
191	196			SAND
196	210			SHALE
210	213			SANDSTONE
213	221	SAND	STONE	SHALE 10GPM
221	236			SANDSTONE
236	241	WHITE		LIMESTONE
241	270	YELLOW		LIMESTONE 20GPM

Remarks (including depth of lost drilling fluids, materials, or tools)
 CREVICE PRODUCES SMALL AMOUNT OF SEDIMENT. 4" SEAM OF SHALE @ 245'.
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 _____ |
| | <input type="checkbox"/> Irrigation | |

Drill method rotary auger cable other _____

Hole size	
16 inch from 0 ft to 238 ft	7.3/8 inch from 241 ft to 275 ft
8.5 inch from 238 ft to 241 ft	inch from ft to ft

Casing Size (ID/OD)	Drive shoe (yes/no)	Type/ Wt	Pitless adaptor (yes/no)		Amount (length)
			Depth top	Depth bottom	
8		PVC17	1	222	223
8		PVC17	232	238	6
6		PVC21	234	251	18

Perforated or slotted casing? Perforated casing Slotted casing
 Perforated Slotted from _____ ft to _____ ft
 Perforated Slotted from _____ ft to _____ ft

Casing grouted?		Placement method: <u>TRIMMIE</u>	
Type	Depth top	Depth bottom	Amount (vol/wt)
CEMENT	0	210	160 SACKS
CEMENT	232	238	3 SACKS

Well Screen? <input checked="" type="checkbox"/> Screen					
Diameter	Slot size	Depth top	Depth bottom	Length	Material
8	0.03	222	232	10	SS

 Bottom Capped with _____
 Seals/Packers kind RUBBER depth 241 ft
 Gravel packed from _____ 210 to _____ 238 ft
 type #2 amount 24 CU FT
Well developed? Well Developed
 Explain _____
 pumped airlifted bailed for _____ 4 hrs at 80 GPM

Pump installed? Pump Installed Date _____
 Installer's Name _____
 Type of Pump _____ Depth to Intake _____ ft
 Pump diameter _____ Rated Capacity GPM _____ GPM

Water information Sand/gravel Limestone Sandstone
 Main water-supply zone from 222 ft to 232 ft seepage well
 Static water level 105 ft (below/above) G tape airborne E-line estimate
 Pump water level _____ ft (below GL) tape airborne E-line estimate
 At yield of _____ GPM: Orifice Volumetric Estimate for _____ hours
 Measurement taken at _____ Date _____

Water quality test? Date _____
 Tested by _____

 Contractor name GINGERICH WELL PUMP SERVICE, LLC
 Address 1331 HWY 1, KALONA, IA 52247
 Driller KLINT GINGERICH Certification no. 2639

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Formation log

From	To	Color	Hardness	Formation description
270	270.5			CREVICE 60GPM
270.5	275	BROWN		LIMESTONE

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

Well use
 Domestic Heat Pump Municipal Commercial Monitoring Livestock Public Supply Irrigation Test Well Other _____

Drill method rotary auger cable other _____

Hole size
 Inch from ft t ft Inch from ft t ft
 Inch from ft t ft Inch from ft t ft

Casing Drive shoe (yes/no) _____ Pileless adaptor (yes/no) _____
 Size (ID/OD) Type/ Wt Depth top Depth bottom Amount (length)
 0 _____

Perforated or slotted casing? Perforated casing Slotted casing
 Perforated Slotted from ft t ft
 Perforated Slotted from ft t ft

Casing grouted? Grouted Placement method: _____
 Type Depth top Depth bottom Amount (vol/wt)

Well Screen? Screen
 Diameter Slot size Depth top Depth bottom Length Material

Bottom Capped with _____
 Seals/Packers kind depth ft
 Gravel packed from to ft
 type amount

Well developed? Well Developed
 Explain _____
 pumped airlifted bailed for hrs at GPM

Pump installed? Pump Installed Date _____
 Installer's Name _____
 Type of Pump Depth to Intake ft
 Pump diameter Rated Capacity GPM GPM

Water Information Sand/gravel Limestone Sandstone
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 Static water level _____ ft (below/above) G tape airline E-line estimate
 Pump water level _____ ft (below GL) tape airline E-line estimate
 At yield of GPM: Orifice Volumetric Estimate for hours
 Measurement taken at Date

Water quality test? Date _____
 Tested by _____

Contractor name GINGERICH WELL PUMP SERVICE, LLC
 Address 1331 HWY 1, KALONA, IA 52247
 Driller -1 Certification no. _____