

WELL RECORD

68024

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. _____

Reverse Circulation Rotary

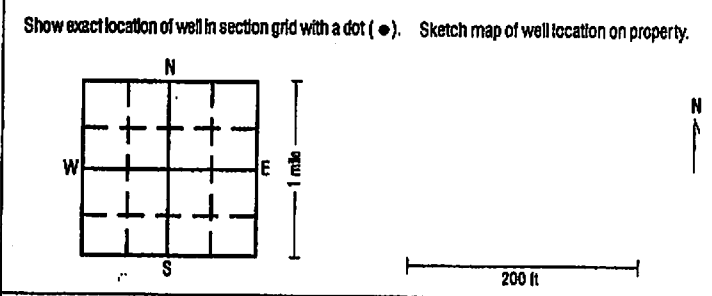
Site Identification City of Fort Madison Well #10
 Property Owner Fort Madison Other ID #10
 Address 2489 280th St., Fort Madison, IA
 Tenant N/A
 Well Depth 184 ft Date completed 8/4/09

Drill method rotary auger cable other _____
Hole size 36 inch from 0 ft to 184 ft hole size continued _____ inch from _____ ft to _____ ft
 _____ inch from _____ ft to _____ ft

Location County Lee
 _____ mi. ^N and _____ mi. ^E of intersection of _____ and _____
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RNG _____ E
 GPS Coordinates (NAD83 datum only) decimal degrees:
40.5528 N. Latitude 91.4342 W. Longitude.

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)
16" o.d.	Steel -375	+2	103	105



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-Pumped

Type	Depth top	Depth bottom	Amount (vol/wt)
Neat Cement	4	94	665 bags
Bentonite Seal	94	96	15 bags

upland hillside valley level surface Elevation (if known) _____

Well screen? (yes no

Diameter	Slot size	Depth top	Depth bottom	Length	Material
16"	0.050	103	184	81	Stainless steel
	0.---				

Formation log

From	To	Color	Hardness	Formation description
0	85	Brown		Fine to medium sand, some gravel
85	92	Gray		Shale
92	121	Gray		Fine sand
121	150			Fine to medium sand, gravel
150	184			Medium to coarse sand, gravel, cobbles
184				Limestone

use additional sheets as needed

Bottom capped (yes no with Stainless Steel Plate
 Seals / Packers (yes no Kind _____ depth _____ ft
 Gravel packed (yes no from 96 ft to 184 ft
 type Red Flint #50 amount 60,000 lbs.

Well developed? (yes no
 Explain Air lifted, then test-pumped
 (pumped, air lifted, bailed) for 8 hrs at 500 GPM

Pump installed? (yes no Date 8/1/09
 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 103 ft to 184 ft seepage well
 Static water level 34 ft (below above) GL; tape airline E-line estimate
 Pumping water level 46 ft below GL; tape airline E-line estimate
 At yield of 1056 GPM; orifice volumetric estimate for 24 hours
 Measurements taken at 8:00 (AM PM) Date 8/19/09

Remarks (including depth of lost drilling fluids, materials, or tools)
All measurements from original ground level.
Add 16' for berm and pitless adapter.

Water quality test? (yes no Date tested 8/18/09
 Tested by Cahoy Pump Service, Inc.

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	

Contractor Cahoy Pump Service, Inc.
 Address 411 E. Main St., Fredericksburg, IA 50630
 Driller Tony Thern Certification no. 8294