

# WELL RECORD

68020

PWTS Permit No. \_\_\_\_\_

PWTS Well No. \_\_\_\_\_

County Permit No. \_\_\_\_\_

*Reverse Circulation Rotary*

## Site Identification

City of Fort Madison Well # 6  
Property Owner Fort Madison Other ID \_\_\_\_\_  
Address 2489 280th St., Fort Madison, IA  
Tenant N/A  
Well Depth 183 ft Date completed 6/4/09

## Location

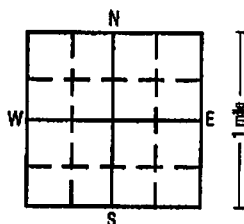
County Lee

mi. <sup>N</sup> and mi. <sup>E</sup> of intersection of \_\_\_\_\_ and \_\_\_\_\_  
1/4 of the \_\_\_\_\_ 1/4 of the \_\_\_\_\_ 1/4 of the \_\_\_\_\_ Sec \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_ E \_\_\_\_\_ W \_\_\_\_\_

GPS Coordinates (NAD83 datum only) decimal degrees:

40.5628 N. Latitude 91.4400 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	9	Brown		Silt
9	52	Brown		Fine to coarse sand
52	93	Brown		medium to large sand + gravel, cobbles + boulders at 90-93'
93	103	Blue/Gray		Clay with boulders
103	111	Gray/Beige		Fine sand, silty
111	130	Gray/Beige		Sand, gravel, boulders
130	183	Gray		Sand, gravel, cobbles, boulders
183				Limestone

use additional sheets as needed

## Remarks

(including depth of lost drilling fluids, materials, or tools)

All measurements from original ground level.  
Add 16' for berm and pitless adapter.

## Well use

- ☐ Domestic  
☐ Livestock  
☐ Test well

- ☐ Heat pump  
☒ Municipal  
☐ Public supply  
☐ Irrigation

- ☐ Commercial  
☐ Monitoring  
☐ Other \_\_\_\_\_

## Drill method

☒ rotary ☐ auger ☐ cable ☐ other \_\_\_\_\_

## Hole size

36 inch from 0 ft to 183 ft  
hole size continued  
\_\_\_\_\_ 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 ☐ Pitless adapter (yes ☒ no ☐

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
16" 0.0	Steel .375	+3	118	121'

## 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	7'	109'	811 bags
Bentonite Seal	109'	111'	22 bags

## Well screen? (yes ☒ no ☐

Diameter	Slot size	Depth top	Depth bottom	Length	Material
16"	0.030	118	183	65	Stainless Steel
	0.____				

Bottom capped (yes ☒ no ☐ with Stainless Steel Plate

Seals / Packers (yes ☒ no ☐ kind \_\_\_\_\_ depth \_\_\_\_\_ ft

Gravel packed (yes ☒ no ☐ from 111 ft to 183 ft  
type Red Flint #30 amount 52,000 lbs

## Well developed? (yes ☒ no ☐

Explain Air lifted, then test-pumped  
(pumped, airlifted, bailed) for 7 hrs at 500 GPM

## Pump installed? (yes ☒ no ☐

Date 6/1/09

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 118 ft to 183 ft ☐ seepage well

Static water level 34 ft (below / above) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

Pumping water level 49 ft below GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

At yield of 1056 GPM; ☒ orifice ☐ volumetric ☐ estimate for 24 hours

Measurements taken at 7:00 AM (AM/PM) Date 6/26/09

## Water quality test? (yes ☒ no ☐

Date tested 6/25/09

Tested by Cahoy Pump Service, Inc.

Contractor Cahoy Pump Service, Inc.

Address 411 E. Main St., Fredericksburg, IA 50601

Driller Tony Thien Certification no. 8294