

70896

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

WELL RECORD

Permit No. 2009-0404W

**Site identification**  
 Property Owner Muscatine Power and Water Well Number 41  
 Address 3205 Cedar Street - Muscatine, Iowa 52761  
 Tenant N/A  
 Well Depth 79 ft Date Completed 12 / 4 / 2009

**Location** County Muscatine  
 \_\_\_ mi. <sup>N</sup> and \_\_\_ mi. <sup>E</sup> of intersection of \_\_\_ and \_\_\_  
 \_\_\_ 1/4 of the SE 1/4 of the NE 1/4 of Sec 15 TWP 76N RNG 2 <sup>E</sup> <sub>W</sub>

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

upland  hillside  valley Elevation (if known) \_\_\_\_\_

**Formation log**

From	To	Color	Hardness	Formation description
GL	3'	Blk.		Top Soil
3'	10'	Red		Red-sandy clay
10'	25'	Red		Sand, Rock - 1-4"
				Gravel
25'	38'	Gray		Sand, gravel
38'	54'	Brown		Sand, gravel
54'	68'	Brown		Sand, gravel 3'-6" rocks
68'	79'	Gray		Sand, gravel

use additional sheets as needed

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

**Well use**  
 Domestic  Municipal  Industrial  
 Livestock  Public Supply  Monitoring  
 Test Well  Irrigation  Other \_\_\_\_\_ (explain)

**Drill method**  rotary  auger  cable other Reverse

**Hole size**  
42 inch from 0 ft to 79 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 adaptor (yes  no)

Size (ID/OD)	Type / WI	Depth top	Depth bottom	Amount (length)
30"	1/2" wall	+16'	59'	75'

**Perforated or slotted casing?** (yes  no)  
 Perforated / slotted from X ft to X ft  
 Perforated / slotted from X ft to X ft

**Casing grouted?** (yes / no)

Type	Depth Top	Depth Bottom	Amount
Neat Cement	5'	53'	48' 9 yards

**Well screen?** (yes  no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
30	.080	59	79'	20'	SS

Bottom capped (yes  no) with SS plate  
 Seals / Packers (yes  no) kind Hole Plug depth 55' - 53' ft  
 Gravel packed (yes  no) from 79 ft to 55 ft  
 type #3WP amount 24000 lb.

**Well developed?** (yes  no) 6-super sacks  
 Explain Double disc swabbed 40 hr.  
Used NW220 - Sodium Hyp.

**Pump installed?** (yes  no) Date 4 / 13 / 2010  
 Installer's name Northway Well and Pump Company  
 Type of pump Turbine Depth to intake 60 ft  
 Pump diameter 12" Rated capacity 1000 GPM

**Water information** Aquifer:  sand/gravel  limestone  sandstone  
 Main water-supply zone from 59 ft to 79 ft  
 Final water level (static water level) 14' 6" ft (below / above) GL.  
 Pumping water level 35 ft below GL;  tape  airline  E-line  
 At yield of 1250 GPM;  orifice  volumetric  estimate Date 12/11/09

**Water quality test?** (yes / no) Date tested \_\_\_ / \_\_\_ / \_\_\_  
 Tested by \_\_\_\_\_  
 Test results \_\_\_\_\_

Contractor Northway Well and Pump Company  
 Address 4895 8th Avenue - Marion, Iowa 52302  
 Driller Leon Carpenter Certification no. 1822

