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

WELL RECORD

079081

Permit No. 2014-0144W

Site identification

Property Owner City of Muscatine Well Number 45

Address 3205 Cedar St. Muscatine, IA. 52761

Tenant

Well Depth 133 ft Date completed 5 / 12 / 2014

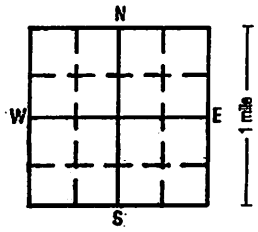
Location

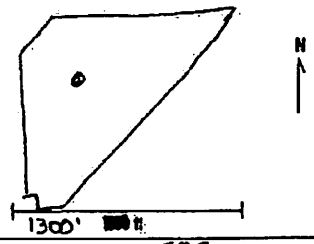
County Muscatine

0 mi. N/S and .07 mi. E/W of intersection of 54th SLS and 59th Ave. W

NE 1/4 of the SW 1/4 of the SW 1/4 of Sec 20 TWP 76 RNG SW E/W

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





☒ upland ☐ hillside ☐ valley Elevation (if known) 538

Formation log

From	To	Color	Hardness	Formation description
0	6'			Fine Sand, Brown
6'	25'			Small gravel - Sand
25'	32'			2-4" Rocks, Sand
32'	51'			Medium Sand, Gravel
51'	56'			3-4" Rock, Sand, Gravel
56'	60'			Large Rock, Sand
60'	93'			Red Sand, Gravel
83'	133'			Green Sand, Gravel, Cobles 1-2"

use additional sheets as needed

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

Well use

☐ Domestic ☒ Municipal ☐ Commercial
☐ Livestock ☐ Public supply ☐ Monitoring
☐ Test well ☐ Irrigation ☐ Other _____ (explain)

Drill method

☒ rotary ☐ auger ☐ cable other Reverse

Hole size

42' inch from 0 ft to 133 ft

____ inch from ____ ft to ____ 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)
29" ID	.500	+3'	93'	96'
30" OD	157.5 pF			

Perforated or slotted casing? (yes / no)

Perforated / slotted from ____ ft to ____ ft

Perforated / slotted from ____ ft to ____ ft

Casing grouted? (yes / no)

Placement method ____

Type	Depth Top	Depth bottom	Amount (vol/wt)
Neat Cement	10'	32'	100 Bags

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
30"	0.08	93'	133'	40'	SS
	0.___				

Bottom capped (yes / no) with SS Plate

Seals / Packers (yes / no) kind Hole Plug depth 32-33 ft

Gravel packed (yes / no) from 33 ft to 133 ft

type #3 Well Pack amount 17 Super Sack

Well developed? (yes / no)

Explain Double Disc swobbed

(pumped, airlifted, bailed) for ____ hrs at ____ GPM.

Pump installed? (yes / no)

Date 6 / 25 / 2014

Installer's name Northway Well and Pump Co.

Type of pump Turbine Depth to intake 85 ft

Pump diameter 14" Rated capacity 1500 GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone

Main water-supply zone from 93 ft to 133 ft ☐ seepage well

Static water level 17 ft (below / above) GL; ☐ tape ☐ airline ☐ E-line ☐ estimate

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

At yield of ____ GPM; ☐ orifice ☐ volumetric ☐ estimate

Measurements taken at ____:____ (AM / PM) Date ____ / ____ / ____

Water quality test? (yes / no)

Date tested 4 / 3 / 2014

Tested by Muscatine Power and Water

Contractor Northway Well and Pump Co.

Address 4895 8th Ave Marion, IA

Driller Leon Carpenter Certification no. 1822

white copy – Iowa DNR, Geological Survey Bureau blue copy – Well Contractor pink copy – Customer yellow copy – County Health Officer