

Site identification
 Property Owner City of Marquette Well Number 83
 Address 88 North Street
 Tenant City Water Department
 Well Depth 929 ft Date Completed 6 / 14 / 06

Location County Clayton
 _____ mi. ^N and _____ mi. ^E of intersection of _____ and _____
 _____ mi. ^S and _____ mi. ^W of intersection of _____ and _____
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RNG _____ 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) 1104

Formation log

From	To	Color	Hardness	Formation description
0	11	Br.		Clay
11	32	Br.		Rock
32	34	Br.	Hard	Clay
34	67	Br.		Limerock
67	75	Blue		Shale
75	145	Blue to Br.		Lime rock w/ shale
145	153	Blue		Shale
153	195	Wh.		St Peter Sandstone
195	215	Yellow		Lime Rock
215	275	Br.		Lime Rock w/ Sandstone
275	355	Br.		Limerock
355	375	Br.		Lime Rock (Broken)
375	404	Br.		Lime Rock
404	405	Gr.		Shale
405	475	Br.		Lime Rock
475	495	Gr.		Shale
495	535	Br.		Sandstone
535	585	Wh.		Sandstone
585	615	Gr.		Lime Rock

use additional sheets as needed

Remarks (including depth of lost drilling fluids, materials, or tools)
Lost circulation at 41 feet

Well use
 Domestic Municipal Industrial
 Livestock Public Supply Monitoring
 Test Well Irrigation Other _____ (explain)

Drill method rotary auger cable other _____
Hole size
19 inch from 0 ft to 42 ft hole size continued 7 7/8 inch from 615 ft to 929 ft
13 7/8 inch from 42 ft to 615 ft _____ inch from _____ ft to _____ ft

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

Casing Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
14	Std. 375	+0	42	42'
8	Std. 322	+2	615	617'

Perforated or slotted casing? (yes no
 Perforated / slotted from _____ ft to _____ ft
 Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes no
 Type Depth Top Depth Bottom Amount

14" Cement	0	42	60 Sacks
8" Cement	0	615	525 Sacks

Well screen? (yes no
 Diameter Slot size Depth Top Depth Bottom Length Material

--	--	--	--	--	--	--

Bottom capped (yes / no) with _____
 Seals / Packers (yes / no) kind _____ depth _____ ft
 Gravel packed (yes / no) from _____ ft to _____ ft
 type _____ amount _____

Well developed? (yes no
 Explain Air Developed 4 hours

Pump installed? (yes no Date _____ / _____ / _____
 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 665 ft to 929 ft
 Final water level (static water level) 449 ft (below / above) GL.
 Pumping water level 485 ft below GL; tape airline E-line
 At yield of 150 GPM; orifice volumetric estimate Date 6-21-06

Water quality test? (yes no Date tested 6 / 21 / 06
 Tested by Hygenic Laboratory
 Test results On File

Contractor Northway Well and Pump Company
 Address 4895 8th Avenue - Marion, Iowa 52302
 Driller Frank Caes Certification no. 1784

Site identification
 Property Owner City of Marquette Well Number 3
 Address _____
 Tenant Page 2
 Well Depth _____ ft Date Completed ____/____/____

Drill method rotary auger cable other _____

Hole size
 _____ inch from 0 ft to _____ ft
 _____ inch from _____ ft to _____ ft

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

Location County _____
 _____ mi. ^N/_S and _____ mi. ^E/_W of intersection of _____ and _____
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RNG _____ 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) _____

Formation log

From	To	Color	Hardness	Formation description
615	635	Gr. to Br.		Lime Rock
635	665	Gr.		Lime Rock
665	676	Gr.		Siltstone
676	695	Gr.		Siltstone & Sandstone
695	717	Gr. Soft		Siltstone
717	735	Gr. & Tan Soft		Siltstone
735	803	Gr.		Siltstone
803	820	Br.		Sandstone
820	825	Gr.		Sandstone
825	929	Wh.		Sandstone

use additional sheets as needed

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

Casing grouted? (yes / no)

Type	Depth Top	Depth Bottom	Amount

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material

Bottom capped (yes / no) with _____
 Seals / Packers (yes / no) kind _____ depth _____ ft
 Gravel packed (yes / no) from _____ ft to _____ ft
 type _____ amount _____

Well developed? (yes / no)
 Explain _____

Pump installed? (yes / no) Date ____/____/____
 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 _____ ft to _____ ft
 Final water level (static water level) _____ ft (below / above) GL.
 Pumping water level _____ ft below GL; tape airline E-line
 At yield of _____ GPM; orifice volumetric estimate Date _____

Water quality test? (yes / no) Date tested ____/____/____
 Tested by _____
 Test results _____

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

Well use

<input type="checkbox"/> Domestic	<input checked="" type="checkbox"/> Municipal	<input type="checkbox"/> Industrial
<input type="checkbox"/> Livestock	<input type="checkbox"/> Public Supply	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Test Well	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Other _____ (explain)

Contractor _____
Address _____
Driller _____ **Certification no.** _____

