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

WELL RECORD

56820

Permit No. 2002-234W

Site identification

Property Owner City of Cumberland Well Number 6

Address 119 Main Street, Cumberland, IA 50843

Tenant

Well Depth 205 ft Date completed 8 / 27 / 02

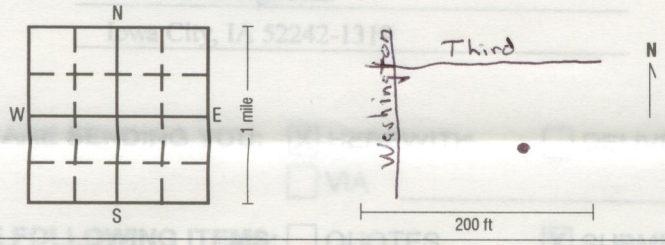
Location

County Cass

1/20 mi. (N) (S) and 1/20 mi. (E) (W) of intersection of Third and Washington

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
0	25	Br		Clay
25	30	Gr		Clay
30	60	Br		Silty Clay
60	75	Br		Silty Clay w/ rocks
75	90	Gr		Hard Clay
90	130	Gr		Hard Clay
130	130.5			Hard Ledge
130.5	135	Red-Br		Clay
135	150	Br		Clay
150	165	Br		Clay w/ rocks
165	170	Br		Clay w/ inc. rocks
170	171			Hard Ledge
171	177	Red-Br		Clay
177	180	Br		Cemented Sandstone
180	205	Br		Sandstone

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

23 inch from 0 ft to 205 ft

hole size continued

inch from ft to ft

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)
8"	28.55 lb/ft	7	185	178
8"	Pitless	+1.5	7	8.5

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

Type	Depth Top	Depth bottom	Amount (vol/wt)
Neat Cement	10	145	12 yd³

Well screen? (yes) no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
8	0.030	185	205	20	S.S.
	0.___				

Bottom capped (yes) no) with Stainless Steel Plate

Seals / Packers (yes / no) kind depth ft

Gravel packed (yes) no) from 145 ft to 205 ft

type #0 amount 12 Ton

Well developed? (yes) no)

Explain Surge + bail

(pumped, airlifted, bailed) for 8 hrs at GPM.

Pump installed? (yes) no) Date 11 / 11 / 02

Installer's name K. Mohr

Type of pump Submersible Depth to intake 190 ft

Pump diameter 5 Rated capacity 100 GPM

Water information

Aquifer: ☐ sand / gravel ☐ limestone ☒ sandstone

Main water-supply zone from 185 ft to 205 ft ☐ seepage well

Static water level 118 ft (below) / above) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

Pumping water level 173 ft below GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

At yield of 91 GPM; ☒ orifice ☐ volumetric ☐ estimate

Measurements taken at 4 : 00 (AM / (PM) Date 8 / 27 / 02

Water quality test? (yes) / no) Date tested 8 / 28 / 02

Tested by D. Mohr

Contractor Layne-Western

Address 5600 Gateway Drive Grimes, IA 50111

Driller A. Sherman Certification no. 40647

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

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