

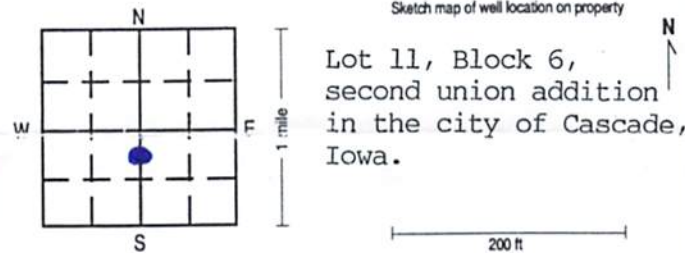
Site identification

Property Owner City of Cascade Well Number #5
Address 320 1st Avenue West
Tenant Same
Well Depth 950 ft Date Completed 6 / 20 / 96

Location

County Dubuque
____ mi. ^N and ____ mi. ^E of intersection of _____ and _____
____ 1/4 of the ____ 1/4 of the ____ 1/4 of Sec 31 TWP 87N RNG 1W ^E _W

Show exact location of well in section grid with a dot (•).



☒ upland ☐ hillside ☐ valley Elevation (if known) 902.45

Formation log

From	To	Color	Hardness	Formation description
0	1			Fill
1	5	ylw		Sandy topsoil
5	11	ylw		Sand
11	36	ylw		Weathered L.S.
36	43	ylw	5	Fractured soft weathered L.S.
--	--	red		w/red clay seams
43	95	ylw	4	Limestone w/chert
95	120	gry	4	Limestone
120	125	brn	4	Limestone
125	144	lgt gry	4	Limestone
144	148	Brn	4	Limestone
148	188	lgt brn	4	Limestone
188	195	Brn	4	Limestone
195	251	Gry	4	Limestone
251	257	Blue	4	Limy shale
257	350	gry	3	Soft limy shale
		gry		w/gray clay seams
350	380	brn/blk	4	Limy shale
380	385	brn	4	Sandy shale

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 Dual Rotary

Hole size

24 inch from 0 ft to 50 ft 15 inch from 800 ft to 950 ft
16 inch from 50 ft to 800 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 (OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
16"	steel .375	0	792	792

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
1A Portland	0	800	847 Bags

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 lift and long term pumping

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 810 ft to 950 ft
Final water level (static water level) 272.59 (below ☒ above ☐ GL.
Pumping water level 299.5 ft below GL; ☒ tape ☒ airline ☐ E-line
At yield of 404 GPM; ☒ orifice ☐ volumetric ☐ estimate Date 6/12/96

Water quality test? (yes ☒ no ☐)

Date tested ____ / ____ / ____

Tested by _____
Test results _____

Contractor Hydro Group, Inc.
Address P.O. Box 788, Meadville, PA 16335
Driller J.D. Arnett Certification no. _____

Site Identification Property Owner _____ Well Number _____ Address _____ Tenant _____ Well Depth _____ ft Date Completed ____/____/____					Drill method ☐ rotary ☐ auger ☐ cable other _____ Hole size ____ inch from ____ ft to ____ ft hole size continued ____ inch from ____ ft to ____ ft ____ 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.																																																																																																																				
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