

- 53020

WELL RECORD

Permit No. 99-528-W

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

Site identification

Property Owner City of Cherokee Well Number 12
 Address 416 W Main
 Tenant _____
 Well Depth 210 ft Date completed 8/5/00

Location County Cherokee

1/16 mi. ^N and 1/8 mi. ^E of intersection of Main St and Saratoga Ave
NW 1/4 of the NW 1/4 of the NW 1/4 of Sec 35 TWP 92 RNG 40 E

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	26			Silty Clay
26	81			Fine med gray sand
81	104			Med sand, gray w/fine
104	157			Fine tan sand
157	180			Fine sandstone
180	211			Sandstone
211				Gray Shale

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
36 inch from 0 ft to 105 ft
29 inch from 105 ft to 210 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)
30	st. 157.5	0	105	105
16	st 82.77	0	140	140

All well casing is .500" wall

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)
Bentonite	100'	105'	5'
Neat Cement	3'	100'	97'

Well screen? (yes/no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
16	0.030	140	210	70	S.S.

Bottom capped (yes/no) with Stainless Steel Plate
 Seals / Packers (yes/no) kind _____ depth _____ ft
 Gravel packed (yes/no) from 210 ft to 105 ft
 type NGC #0 amount 12.5 yd³

Well developed? (yes/no)
 Explain Surge + Bail, Step Pump Test
 (pumped, airlifted, bailed) for 10 hrs at various GPM.

Pump installed? (yes/no) Date 8/5/00
 Installer's name David Poulos
 Type of pump Submersible Depth to intake 130 ft
 Pump diameter 12" Rated capacity 1200 gpm @ 178' GPM

Water information Aquifer: sand/gravel limestone sandstone
 Main water-supply zone from 140 ft to 210 ft seepage well
 Static water level 65 ft (below above) GL; tape airline E-line estimate
 Pumping water level 117 ft below GL; tape airline E-line estimate
 At yield of 1276 GPM; orifice volumetric estimate
 Measurements taken at 8:00 (AM/PM) 24 hrs Date 5/1/00

Water quality test? (yes/no) Date tested 5/1/00
 Tested by City

Contractor Layne-Western
 Address 25450 Hwy 275 Valley, NE
 Driller Mark Leslie Certification no. 40550