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

WELL RECORD #40320

Permit No. Permitted by Veenstra + Kimm, Inc.

Site identification

Property Owner W. Des Moines Water Works Well Number 21

Address 1505 Railroad Ave, W. Des Moines, IA 50265

Tenant West Des Moines Water Works

Well Depth 42 ft Date Completed 11 / 08 / 95

From Final Casing Elevation

Location

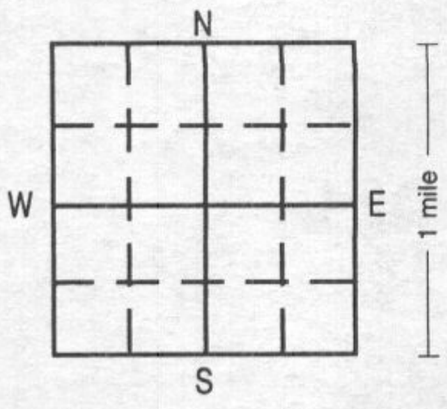
County Polk

____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
0	5	Brown		Backfill
5	7	Black		Clay
7	8	Gray		Clay
8	17	"		Clay
17	29	"		Sand, gravel, cobbles
29	36	"		Sand
36	37	"		Clay w/cobbles
				9.2
				19.7
		use additional sheets as needed		36

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 _____

Hole size

52 inch from 0 ft to 36 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 adaptor (yes / no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
20"	0.500"	+6'	26'	32'

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
Neat Cement	0'	10'	6 yds.

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
20"	0.100"	26'	36'	10'	SST.

Bottom capped (yes / no) with SST. Plate

Seals / Packers (yes / no) kind Bentonite depth 10-18 ft

Gravel packed (yes / no) from 18 ft to 36 ft

type Northern 9/16 x #10 amount 12 TONS

Well developed? (yes / no)

Explain Surge block, bailer, pump

Pump installed? (yes / no) Date 06 / 18 / 96

Installer's name Joe Dooling

Type of pump Vertical Turbine Depth to intake 39 ft From Top of Casing

Pump diameter 10" Rated capacity 550 GPM

Water information

Aquifer: ☒ sand/gravel ☐ limestone ☐ sandstone

Main water-supply zone from 26 ft to 36 ft

Final water level (static water level) 12 ft (below / above) GL.

Pumping water level 22 ft below GL; ☐ tape ☐ airline ☒ E-line

At yield of 470 GPM; ☒ orifice ☐ volumetric ☐ estimate Date 11/8/95

Water quality test? (yes / no) Date tested ____ / ____ / ____

Tested by West Des Moines Water Works

Test results _____

Contractor Layne - Western

Address 912 S. 14th Ave., Marshalltown, IA 50158

Driller Dave Dearer Certification no. A0259

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