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

WELL RECORD #43734

Permit No. _____

Site identification

Property Owner Thorpe Water Dev. Co. Well Number _____

Address PO Box 555, Ankeny, IA 50021

Tenant _____

Well Depth 653 ft Date Completed 5 / 14 / 97

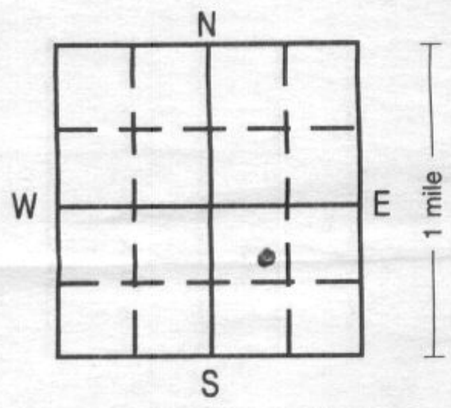
Location

County Polk

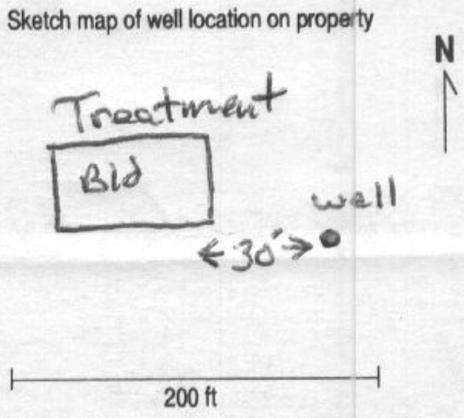
1/2 mi. (N) S and 1/4 mi. (E) W of intersection of NW Polk City and HWY 415

NW 1/4 of the SE 1/4 of the NE 1/4 of Sec 20 TWP 80 RNG 24 (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	2	Blk	Med	Top soil
2	25	Grn	Soft	Sandy Clay/Water
25	50	Grn	Med	Clay
50	70	Gry	Med	Till clay some grav.
70	80	Gry	Soft	Sand & gravel/water
80	85	Red	Med	Shale
85	102	Grn	Med	Sandstone/water
102	103	Blk	M/H	Coal
103	130	Bl/gry	Med	Coal streaks/sandstone and shale
130	140	Tan	Soft	Sand, gravel
140	170	Tan	Soft	Shale
170	250	Red	Med	Shale
250	357	Gry	Med	Shale
357	358	Gry	Hard	Limestone
358	385	Gry	Med	Shale
385	395	White	Med	Limestone
395	414.5	Wht	Hard	Limestone
414.5	430	Brn	M/H	Limestone
Continued		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 _____

Hole size

10 inch from 0 ft to 414 ft
5 7/8 inch from 414 ft to 652 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)
6" ID	19# St.	+1.5'	412.5'	414'

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
Volclay II	-20	414	650 gal.

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

Pump installed? (yes / no)

Date 5 / 20 / 97

Installer's name Thorpe Water Dev.
Type of pump F+W Depth to intake 405' ft
Pump diameter 4" Rated capacity 27 @ 400' GPM

Water information

Aquifer: ☐ sand/gravel ☒ limestone ☐ sandstone

Main water-supply zone from 500 ft to 600 ft
Final water level (static water level) 260 ft (below (flow) GL.
Pumping water level _____ ft below GL; ☐ tape ☒ airline ☐ E-line
At yield of 30 GPM; ☐ orifice ☐ volumetric ☒ estimate Date 5/14/97

Water quality test? (yes / no)

Date tested ___ / ___ / ___
Tested by Keystone Labs
Test results Attached

Contractor J & R Drilling Services, Inc.
Address 7922 NW 114th Street, Grimes, IA
Driller Ray Coons **Certification no.** 40360

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