

received 8-1-94

#34731

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

WELL RECORD

Permit No. 94-22-W

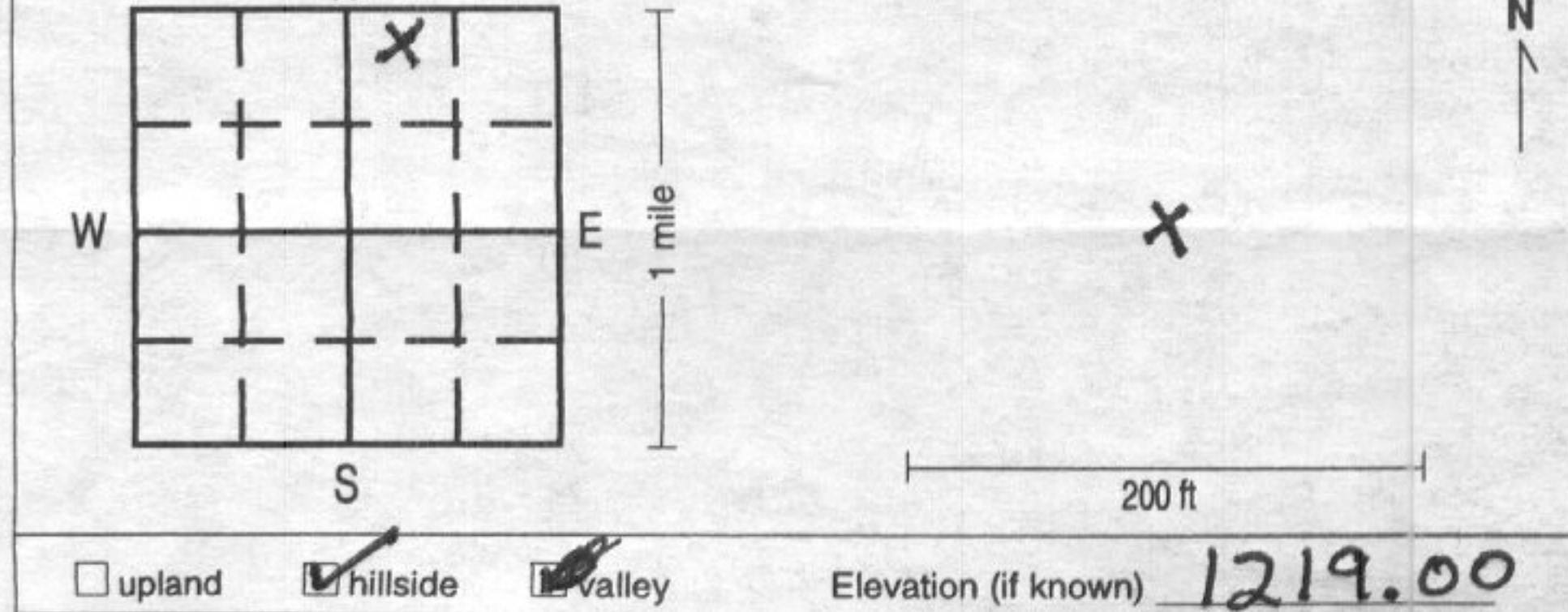
Site identification
 Property Owner City of Wiota Well Number 4
 Address City Hall, Wiota, Ia. 50274
 Tenant _____
 Well Depth 165 ft Date Completed 07 / 22 / 94

Drill method rotary auger cable other _____
Hole size 23 inch from 0 ft to 165 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.

Location County Cass
 _____ mi. N and _____ mi. E of intersection of _____ and _____
 S W
NW 1/4 of the NW 1/4 of the NE 1/4 of Sec 10 TWP 76 RNG 35 E W
 Show exact location of well in section grid with a dot (•).
 Sketch map of well location on property

Casing Drive shoe (yes / no) Pitless adaptor (yes / no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
<u>10" ID</u>	<u>40 lb.</u>	<u>0</u>	<u>135</u>	<u>135</u>



Perforated or slotted casing? yes no
 Perforated / slotted from 135 ft to 165 ft
 Perforated / slotted from _____ ft to _____ ft

Casing grouted? yes no

Type	Depth Top	Depth Bottom	Amount
<u>ASTM C150</u>	<u>05.0</u>	<u>35</u>	<u>104 SKs</u>

upland hillside valley Elevation (if known) 1219.00

Formation log

From	To	Color	Hardness	Formation description
<u>0</u>	<u>3</u>			<u>Top soil</u>
<u>3</u>	<u>21</u>	<u>Brown</u>	<u>soft</u>	<u>Clay Till</u>
<u>21</u>	<u>28</u>	<u>White</u>		<u>Fine Sand</u>
<u>28</u>	<u>49</u>	<u>Gray</u>	<u>soft</u>	<u>Clay Till</u>
<u>49</u>	<u>52</u>	<u>Mixed</u>		<u>Sand med</u>
<u>52</u>	<u>60</u>	<u>Tan white</u>	<u>soft</u>	<u>Clay</u>
<u>60</u>	<u>111</u>	<u>White</u>	<u>med</u>	<u>Sandstone Fine</u>
<u>111</u>	<u>114</u>	<u>Gray</u>	<u>soft</u>	<u>Shale</u>
<u>114</u>	<u>160</u>	<u>Tan</u>	<u>med</u>	<u>Sandstone Fine med</u>
<u>160</u>	<u>165</u>	<u>Tan</u>	<u>med</u>	<u>Sandstone Med</u>
<u>165</u>	<u>170</u>	<u>Gray</u>	<u>med</u>	<u>Shale</u>

Well screen? yes no

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
<u>10"</u>	<u>30</u>	<u>135</u>	<u>165</u>	<u>30'</u>	<u>Stainless Steel</u>

Bottom capped yes no with Stainless Steel
 Seals / Packers (yes / no) kind _____ depth _____ ft
 Gravel packed yes no from 70 ft to 165 ft
 type 6-12 amount 18 ton

Well developed? yes no
 Explain used Air

Pump installed? yes no Date 07 / 22 / 94
 Installer's name Reynolds Drilling
 Type of pump Submersible Depth to intake 112 ft
 Pump diameter 6" Rated capacity 120 GPM

Water information Aquifer: sand/gravel limestone sandstone
 Main water-supply zone from 60 ft to 165 ft
 Final water level (static water level) 24 ft (below / above) GL.
 Pumping water level 35 ft below GL; tape airline E-line
 At yield of 180 GPM; orifice volumetric estimate Date _____

Water quality test? (yes / no) Date tested _____ / _____ / _____
 Tested by _____
 Test results _____

Remarks (including depth of lost drilling fluids, materials, or tools)

Well use
 Domestic Municipal Industrial
 Livestock Public Supply Monitoring
 Test Well Irrigation Other _____ (explain)

Contractor Reynolds Drilling
 Address P.O. Box 36 Griswold, Ia. 51535
 Driller Michael Reynolds Certification no. 40059