

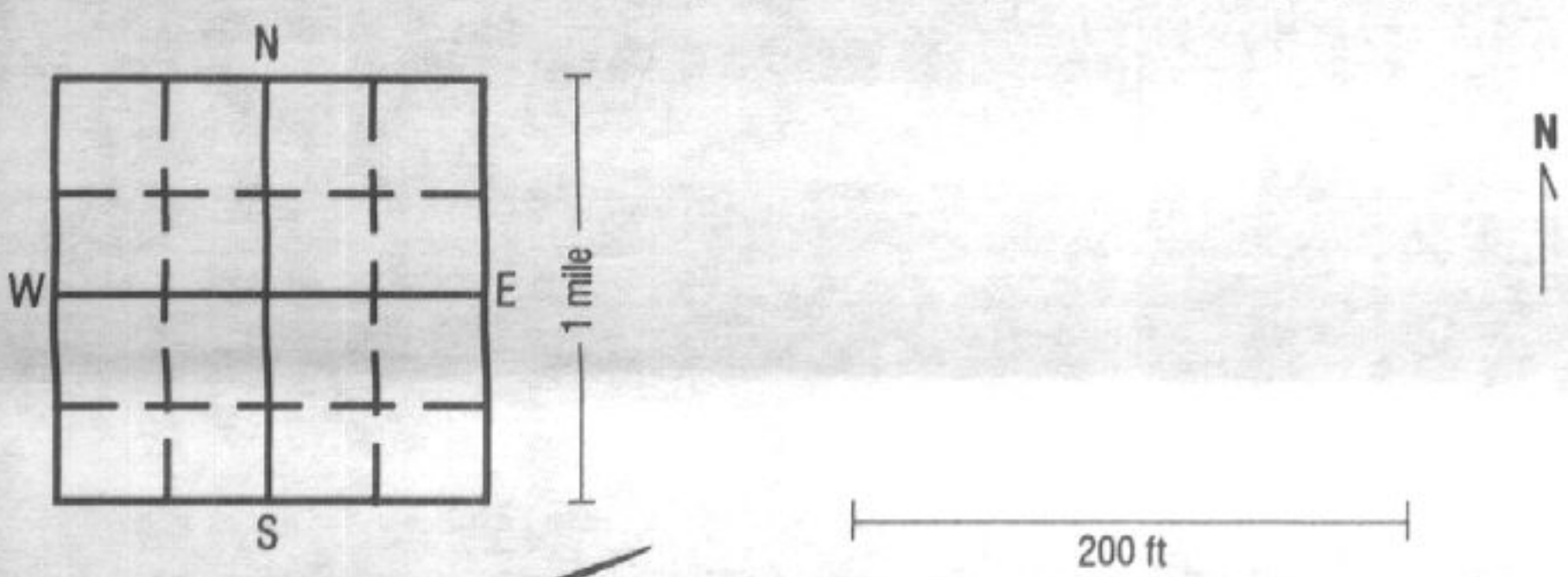
Site identification
 Property Owner Des Moines Water Works Well Number CW-3
 Address 2201 Valley Drive, Des Moines, Ia. 50321-1900
 Tenant _____
 Well Depth 37.88 ft Date completed 3/21/00

Drill method rotary auger cable other Cassion
Hole size
16 inch from 0 ft to _____ ft
 _____ inch from _____ ft to _____ ft

Location County Polk
4 mi. ^N and 1 mi. ^E of intersection of Army Rd. W. and I 35 S.
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec 25 TWP 28N RNG 26W E
 Show exact location of well in section grid with a dot (●). Sketch map of well location on property.

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)
<u>13 1/16'</u>	<u>concrete</u>	<u>835.61</u>	<u>797.73</u>	



upland hillside valley Elevation (if known) 835.61

Perforated or slotted casing? (yes/no)
 Perforated / slotted from _____ ft to _____ ft
 Perforated / slotted from _____ ft to _____ ft

Formation log

From	To	Color	Hardness	Formation description
<u>0</u>	<u>6</u>	<u>Br</u>	<u>Soft</u>	<u>Sand Med/fine</u>
<u>6</u>	<u>25</u>	<u>Br</u>	<u>Soft</u>	<u>Sand Med/coarse with Gravel</u>
<u>25</u>	<u>29.5</u>	<u>Grey</u>	<u>Hard</u>	<u>Large Gravel</u>
<u>29.5</u>		<u>Blue</u>	<u>Hard</u>	<u>Weathered Shale</u>

Casing grouted? (yes/no) Placement method Trimie

Type	Depth Top	Depth bottom	Amount (vol/wt)
<u>Bentonite</u>			

use additional sheets as needed

Well screen? (yes/no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
<u>9.625</u>	<u>0.---</u>			<u>690'</u>	<u>SS</u>

 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 Surged by Pumping
 (pumped, airlifted, bailed) for 336 hrs at 500 GPM.

Pump installed? (yes/no) Date 4/12/00
 Installer's name Harry Burton
 Type of pump Turbine Depth to intake 38' ft
 Pump diameter 20" Rated capacity _____ GPM

Water information Aquifer: sand / gravel limestone sandstone
 Main water-supply zone from 800.96 to _____ ft seepage well
 Static water level 23.25 ft (below/above) GL; tape airline E-line estimate
 Pumping water level 806.7 ft below GL; tape airline E-line estimate
 At yield of 1000 GPM; orifice volumetric estimate
 Measurements taken at _____ : _____ (AM / PM) Date _____ / _____ / _____

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

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

Well use
 Domestic Municipal Commercial
 Livestock Public supply Monitoring
 Test well Irrigation Other _____ (explain)

Contractor Harry Burton
 Address P.O. Box 186 Orleans, Ia. 47452
 Driller Harry Burton Certification no. 40562