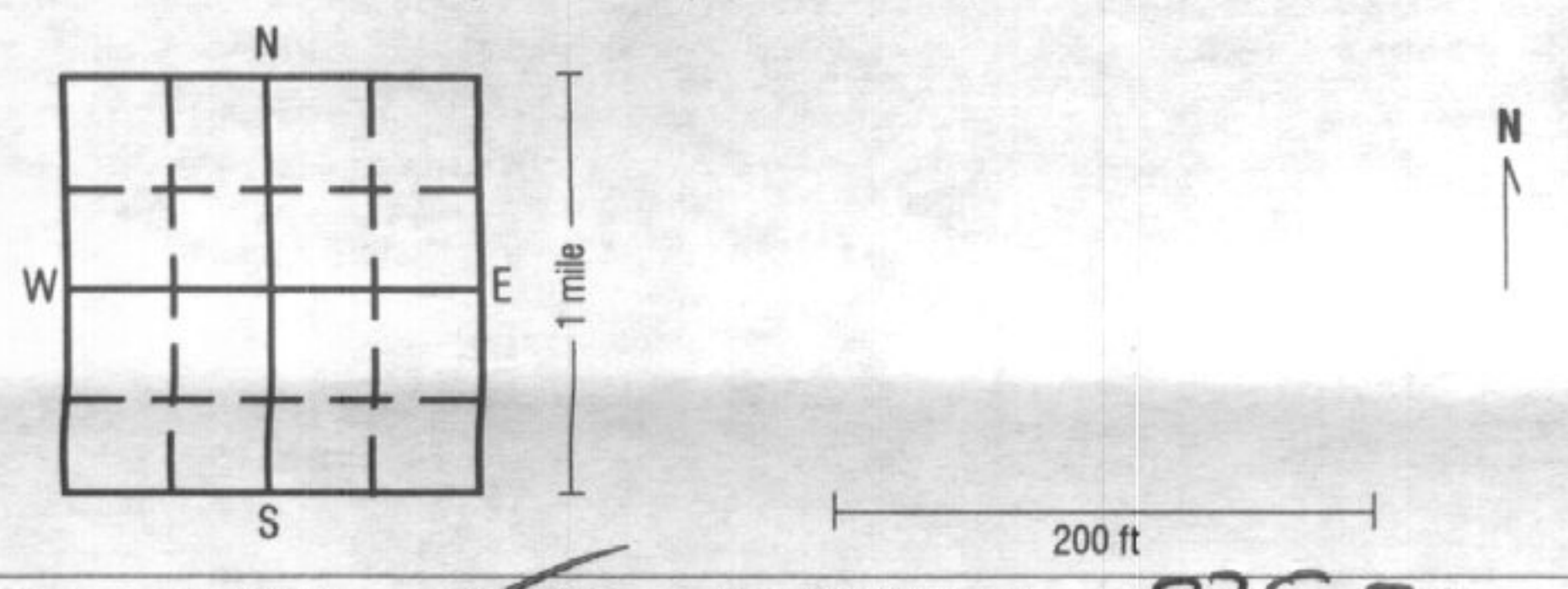


Site identification
 Property Owner Des Moines Water Works Well Number CW-2
 Address 2201 Valley Drive, Des Moines, IA 50321-1190
 Tenant _____
 Well Depth 38.01 ft Date completed 10/27/99

Location County Polk
.35 mi. ^N and .78 mi. ^E of intersection of Army Rd and I35 S.
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec 30 TWP 28N RNG 25 ^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) 835.50

From	To	Color	Hardness	Formation description
0	3	Br	Soft	Br clay
3	9	Br	Soft	Br-clay + sand
9	12	Br	Soft	Sand / Fine / med
12	33	Lt Gray Br.	Soft	Sand Fine / Coarse with some gravel
33		Blue	Hard	Weathered Shale

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 Cossion
Hole size 16 inch from 0 ft to 38.01 ft
 _____ inch from _____ ft to _____ ft

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

Casing Drive shoe (yes / no) Pittless adapter (yes / no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
<u>13' / 16'</u>	<u>Concrete</u>	<u>835.50</u>	<u>797.49</u>	

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

Casing grouted? (yes / no) Placement method _____

Type	Depth Top	Depth bottom	Amount (vol/wt)

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
<u>9.625</u>	<u>0. _____</u>			<u>680'</u>	<u>S.S.</u>

Bottom capped (yes / no) with SS. Plate
 Seals / Packers (yes / no) kind ft depth _____ ft
 Gravel packed (yes / no) from _____ ft to _____ ft
 type _____ amount _____

Well developed? (yes / no)
 Explain Surged by Pumping
 (pumped, airlifted, bailed) for _____ hrs at _____ GPM.

Pump installed? (yes / no) Date 12 / 1 / 99
 Installer's name Harry Burton
 Type of pump Turbine Depth to intake 39' ft
 Pump diameter 20" Rated capacity 3700 GPM

Water information Aquifer: sand / gravel limestone sandstone
 Main water-supply zone from _____ ft to _____ ft seepage well
 Static water level 24.87 ft (below / above) GL; tape airline E-line estimate
 Pumping water level 806.05 ft below GL; tape airline E-line estimate
 At yield of 1000 GPM; orifice volumetric estimate
 Measurements taken at _____ : _____ (AM / PM) Date _____ / _____ / _____

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

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