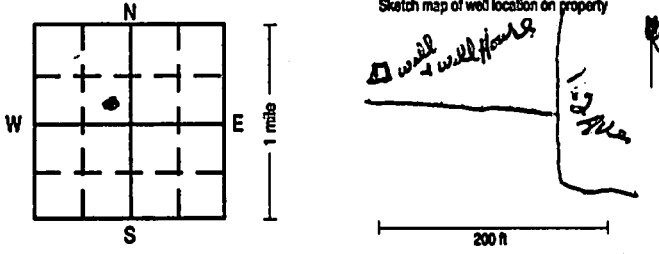


Site Identification
 Property Owner HARTWIG GOLF COURSE Well Number 1
 Address R.P. MANCHESTER
 Tenant _____
 Well Depth 220 ft Date Completed 4/14/94

Drill method rotary auger cable other _____
Hole size
 12 inch from 0 ft to 105 ft hole size continued _____ inch from _____ ft to _____ ft
 7 1/2 inch from 105 ft to 220 ft _____ inch from _____ ft to _____ ft

Location County DELAWARE
3/4 mi. ^W and _____ mi. ^E of Intersection of 162nd and 195th
SE 1/4 of the SE 1/4 of the SW 1/4 of Sec 19 TWP 99N RANG 5 ^E _W

Show exact location of well in section grid with a dot (•).


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

Casing Size (DOD)	Drive shoe (yes/no)	Type/Wt	Depth top	Depth bottom	Pitless adaptor (yes/no)	Amount (length)
8"		Steel steel	Surf 2	105'		107

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
Benzonal	Surf	105'	15' Benzonal 6' Hole Plug

upland hillside valley Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	95	Gr	S	Sand
95	220	blk shag	M	limestone

use additional sheets as needed

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 _____

Pump installed? (yes/no) no Date ____/____/____
 Installer's name _____
 Type of pump _____ Depth to intake _____ ft
 Pump diameter _____ Rated capacity _____ GPM

Water information Aquifer: sand/gravel limestone sandstone
 Main water-supply zone from 105 ft to 220 ft
 Final water level (static water level) 30 ft (below/above) GL.
 Pumping water level 8' ft below GL; tape airline E-line
 At yield of 110 GPM; orifice volumetric estimate Date 4-14-94

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

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

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

Contractor RICH OGDEN WELL SERVICE
 Address R.P. 3, BOX 212 MANCHESTER
 Driller RICH OGDEN Certification no. 48206