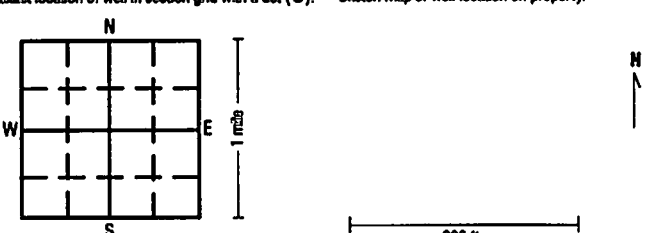


**Site identification**  
 Property Owner Twin Bridges Park Well Number \_\_\_\_\_  
 Address Delaware Co. Conservation, Garlyn Glanz  
 Tenant 2379 Jefferson Rd, Manchester  
 Well Depth 485 ft Date completed 9/15/99

**Location** County Delaware  
 \_\_\_\_\_ mi. N and \_\_\_\_\_ mi. E of intersection of \_\_\_\_\_ and \_\_\_\_\_  
 \_\_\_\_\_ 1/4 of the NW 1/4 of the NW 1/4 of Sec 11 TWP 90 RNG 4 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'	3'			Topsoil
3'	14'	Brown		Clay
14'	23'			Gravel
23'	51'	Blue		Shale
51'	76'	Brown		Rock
76'	87'	Blue		Shale
87'	105'	Brown		Rock
105'	110'	Brown		Shale
110'	116'	Blue		Shale
116'	126'	Brown		Shale
126'	141'			Galena Rock
141'	348'	lt. Brown		Galena
348'	368'	Gray		Shale Rock
368'	375'	Brown		Shale Rock
375'	438'	Brown-Gray		Shale
438'	443'		soft	Shale
443'	481'			Sandstone
481'	485'			Shale

use additional sheets as needed

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

**Well use**

<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Commercial
<input type="checkbox"/> Livestock	<input type="checkbox"/> Public supply	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Test well	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Other _____ (explain)

**Drill method**  rotary  auger  cable other \_\_\_\_\_  
**Hole size**  
 12 1/4 inch from 0 ft to 40 ft hole size continued 10 inch from 40 ft to 449 ft  
 6 1/4 inch from 40 ft to 375 6 inch from 449 ft to 485 ft  
 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)
6 3/8"	Steel	+4'	449'	453'

**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)
Neat Cement	0'	449'	165 sacks
Holeplug			1 sack

**Well screen?** (yes/no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
	0.---				
	0.---				

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 Lift: 70 GPM at 240', 20 GPM at 340'  
 (pumped, airlifted, balled) for \_\_\_\_\_ hrs at \_\_\_\_\_ GPM.

**Pump installed?** (yes/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 \_\_\_\_\_ ft to \_\_\_\_\_ ft  seepage well  
 Static water level 135 ft (below/above) GL:  tape  airline  E-line  estimate  
 Pumping water level 240 ft below GL:  tape  airline  E-line  estimate  
 At yield of 10 GPM:  orifice  volumetric  estimate  
 Measurements taken at \_\_\_\_\_: \_\_\_\_\_ (AM/PM) Date \_\_\_\_/\_\_\_\_/\_\_\_\_

**Water quality test?** (yes/no) \_\_\_\_\_ Date tested \_\_\_\_/\_\_\_\_/\_\_\_\_  
 Tested by \_\_\_\_\_

Contractor Shawyer Well Company, Inc.  
 Address Fredericksburg, IA 50630  
 Driller Dave Halweg Certification no. 40162