

**Site identification**

Property Owner Southern Sioux Well Number I-1  
 Address P.O. Box 8, Iretun, IA 51027  
 Tenant 1002 Main St.  
 Well Depth 186 ft Date completed 5/31/02

**Location** County Plymouth

.9 mi. <sup>S</sup> and .05 mi. <sup>E</sup> of intersection of C12 and Hwy 75  
1/4 of the NE 1/4 of the NE 1/4 of Sec 5 TWP 93 RNG 45 <sup>E</sup> <sub>W</sub>

Show exact location of well in section grid with a dot (•). Sketch map of well location on property.

upland  hillside  valley Elevation (if known) 1265

**Formation log**

From	To	Color	Hardness	Formation description
0	10	Brown		Clay
10	45			Coarse to Fine Sand
45	65			Gravel to Coarse Sand
65	87	Brown		Clay
87	125	Blue		Clay
125	135			Sandy Clay
135	146			Fine Sand
146	150			Sandy, Clay streaks
150	156			Medium Sand
156	186			Coarse Sand + Gravel
186				Shale

use additional sheets as needed

**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 Reverse

**Hole size**  
24 inch from 0 ft to 190 ft  
 \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft

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

**Casing** Drive shoe (yes ) Pitless adapter (yes )

Size (ID/OD)	Type / WT	Depth top	Depth bottom	Amount (length)
12"	49.56 1bs./ft	+2	146	148

**Perforated or slotted casing?** (yes )

Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft

**Casing grouted?** (yes ) Placement method Tremie

Type	Depth Top	Depth bottom	Amount (vol/wt)
Neat Cement	5	111	9.5 yd <sup>3</sup>

**Well screen?** (yes )

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
12"	0.030	146	186	40	wirewrap stainless

Bottom capped (yes ) with Stainless Steel Plate  
 Seals / Packers (yes ) kind \_\_\_\_\_ depth \_\_\_\_\_ ft  
 Gravel packed (yes ) from 111 ft to 186 ft  
 type NGC #0 amount 10 Ton

**Well developed?** (yes )  
 Explain Surge, Bail, + Test Pumped  
 (pumped, airlifted, bailed) for 8 hrs at various GPM.

**Pump installed?** (yes ) Date 5/31/02  
 Installer's name Ron Brown  
 Type of pump Submersible Depth to intake 132 ft  
 Pump diameter 8" Rated capacity 475 GPM

**Water information** Aquifer:  sand / gravel  limestone  sandstone  
 Main water-supply zone from 146 ft to 186 ft  seepage well  
 Static water level 90 ft (below above) GL;  tape  airline  E-line  estimate  
 Pumping water level 110 ft below GL;  tape  airline  E-line  estimate  
 At yield of 500 GPM;  orifice  volumetric  estimate  
 Measurements taken at 12:00 (AM  PM) Date 4/17/02

**Water quality test?** (yes ) Date tested 4/17/02  
 Tested by owner

Contractor Layne-Western  
 Address 5600 Gateway Drive, Suite B Grimes, IA  
 Driller Sherman Certification no. 40647