

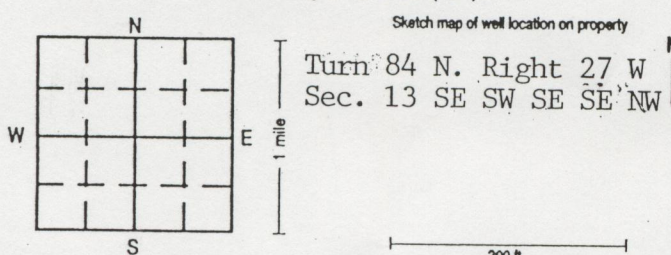
# 56973

## WELL RECORD

Iowa Department of Natural Resources Geological Survey Bureau  
 109 Trowbridge Hall Iowa City, Ia. 52242-1319 PH (319) 335-1575

Permit No. \_\_\_\_\_

**Site Identification**  
 Property Owner City of Boone Well Number 29  
 Address 1190 188th Road Boone, Iowa  
 Tenant \_\_\_\_\_  
 Well Depth 52 ft Date Completed 1 / 7 / 03

**Location** County Boone  
 \_\_\_\_\_ mi. <sup>N</sup> and \_\_\_\_\_ mi. <sup>E</sup> of intersection of \_\_\_\_\_ and \_\_\_\_\_  
 \_\_\_\_\_ 1/4 of the \_\_\_\_\_ 1/4 of the \_\_\_\_\_ 1/4 of Sec. \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_ E  
 W  
 Show exact location of well in section grid with a dot (●).  
 Sketch map of well location on property  
  
 Turn 84 N. Right 27 W  
 Sec. 13 SE SW SE SE NW

upland  hillside  valley Elevation (if known) +885

Formation log		Color	Hardness	Formation description
From	To			
0	6			Fill
6	15			Fine med. sand
15	32			Sand and Gravel
32	51			Med. sand and gravel
51	52			Black shale

use additional sheets as needed

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

**Well use**  
 Domestic  Municipal  Industrial  
 Livestock  Public Supply  Monitoring  
 Test Well  Irrigation  Other \_\_\_\_\_ (explain)

**Drill method**  rotary  auger  cable other Rev Rot.  
**Hole size**  
48 inch from 0 ft to 52 ft hole size continued \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

**Casing** Drive shoe (yes/no) \_\_\_\_\_ Pitless adaptor (yes/no) \_\_\_\_\_

Size (ID/OD)	Type/Wt	Depth top	Depth bottom	Amount (length)
20"	A53	+2	36'	38'

**Perforated or slotted casing?** (yes/no)  
 Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft

**Casing grouted?** (yes/no) yes Placement Method Tremie

Type	Depth Top	Depth Bottom	Amount
ASTM	6'	20'	7 yards
C150			

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

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
20	0070	36'	52'	15	s.s.

Bottom capped (yes/no) yes with 3/8" s.s. plate  
 Seals / Packers (yes/no) yes kind Bentonite depth 20 to 22 ft  
 Gravel packed (yes/no) yes from 20 ft to 52 ft  
 type #3 amount 18 ton

**Well developed?** (yes/no) yes  
 Explain Surge block and pumped  
Pumped for 24 hours at 500 gpm

**Pump installed?** (yes/no) yes Date 1 / 7 / 03  
 Installer's name Northway Well and Pump Co.  
 Type of pump submersible Depth to intake 46' ft  
 Pump diameter 6" Rated capacity 350 GPM

**Water information** Aquifer:  sand/gravel  limestone  sandstone  
 Main water-supply zone from 10 ft to 51 ft  
 Final water level (static water level) 14 ft (below / above) GL.  
 Pumping water level 22 ft below GL;  tape  airline  E-line  
 At yield of 500 GPM;  orifice  volumetric  estimate Date 10/23/02  
6 a.m.

**Water quality test?** (yes/no) yes Date tested 11 / 27 / 02  
 Tested by University of Iowa Hygenic Lab.  
 Test results \_\_\_\_\_

Contractor Northway Well and Pump Co.  
 Address 100 North 6th Street Waukee, IA  
 Driller Don Murphy Certification no. 40187