

61477

Permit No. 2005-131W

**Site identification**  
 Property Owner Rural Water System #1 Well Number 38  
 Address 4438 380th St, Hoopes, IA 51238  
 Tenant \_\_\_\_\_  
 Well Depth 38 ft Date completed 3/22/05

**Location** County Sioux  
 \_\_\_\_\_ mi. <sup>N</sup> and \_\_\_\_\_ mi. <sup>E</sup> of intersection of \_\_\_\_\_ and \_\_\_\_\_  
NW 1/4 of the NW 1/4 of the NW 1/4 of Sec 10 TWP 96 RNG 47 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) \_\_\_\_\_

**Formation log**

| From | To | Color | Hardness   | Formation description |
|------|----|-------|------------|-----------------------|
| 0    | 2  | Brown | Soft       | Sandy Dirt            |
| 2    | 16 |       |            | Coarse Sand           |
| 16   | 21 |       | Gravel     | Coarse Sand           |
| 21   | 35 |       |            | Coarse Sand           |
| 35   | 41 |       | Fin Gravel | Coarse Sand           |
| 41   | 55 | Grey  | Soft       | Clay                  |

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 \_\_\_\_\_  
**Hole size**  
 \_\_\_\_\_ 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 adapter (yes/no) \_\_\_\_\_

| Size (ID/OD) | Type / Wt | Depth top | Depth bottom | Amount (length) |
|--------------|-----------|-----------|--------------|-----------------|
| 5"           |           | +3        | 28           | 31'             |

**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) |
|------------|-----------|--------------|-----------------|
| Benwick SW | 0         | 18           |                 |

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

| Diameter | Slot size | Depth Top | Depth Bottom | Length | Material |
|----------|-----------|-----------|--------------|--------|----------|
| 5"       | 0.0250    | 28        | 38           | 10'    | SS       |
| 0        |           |           |              |        |          |

Bottom capped (yes/no) with SS. Plate  
 Seals / Packers (yes/no) kind \_\_\_\_\_ depth \_\_\_\_\_ ft  
 Gravel packed (yes/no) from 18 ft to 38 ft  
 type NCC #3 amount 9 cu ft

**Well developed?** (yes/no) \_\_\_\_\_  
 Explain Swaged + Bailed  
 (pumped, airlifted, bailed) 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 28 ft to 38 ft  seepage well  
 Static water level 14 ft (below / above) GL;  tape  airline  E-tube  estimate  
 Pumping water level 16 1/2 ft below GL;  tape  airline  E-tube  estimate  
 At yield of 85 GPM;  orifice  volumetric  estimate  
 Measurements taken at \_\_\_\_\_ (AM / PM) Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

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

Contractor Morrell Company  
 Address 15301 Hickman Rd, Waukegan, IL 60087  
 Driller Scott Deemer Certification No. 40753