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

# WELL RECORD

61473

Permit No. 2005-131 W

## Site identification

Property Owner Rural System #1 Well Number 04

Address 4438 380th St. Hospers, IA. 51238

Tenant

Well Depth 60 ft Date completed 4 / / 05

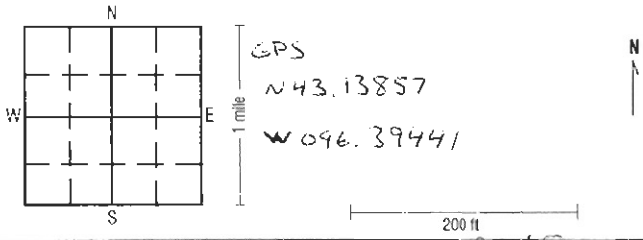
## Location

County Sioux

___ mi. N/S and ___ mi. E/W of intersection of ___ and ___

SE 1/4 of the NE 1/4 of the NE 1/4 of Sec 16 TWP ___ RNG ___ 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) 1224 ft.

## Formation log

| From | To | Color | Hardness | Formation description |
|---|---|---|---|---|
| 0 | 6 | Black | Soft | Clay |
| 6 | 20 | Brown | | Sand |
| 20 | 23 | | | Gravel |
| 23 | 55 | | | Sand |
| 55 | 56 | | | Gravel |
| 56 | 64 | | | Sand |
| 64 | 80 | Grey | | 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

10 inch from 0 ft to 65 ft

___ inch from ___ ft to ___ ft

hole size continued

___ 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" | Steel | +3 | 50 | 53 |
| | | | | |
| | | | | |
| | | | | |

## 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) |
|---|---|---|---|
| Bentonite Seal | 0 | 40 | 16 ft³ |
| | | | |

## Well screen? (yes / no)

| Diameter | Slot size | Depth Top | Depth Bottom | Length | Material |
|---|---|---|---|---|---|
| 5" | 0.090 | 50 | 60 | 10 | S.S. |
| | 0.___ | | | | |

Bottom capped (yes / no) with S.S. Plate

Seals / Packers (yes / no) kind ___ depth ___ ft

Gravel packed (yes / no) from 40 ft to 60 ft

type NGC #3 amount 9 ft³

## Well developed? (yes / no)

Explain Surge + 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 50 ft to 60 ft ☐ seepage well

Static water level 19 ft (below / above) GL; ☐ tape ☐ airline ☐ E-line ☐ estimate

Pumping water level 24 ft below GL; ☐ tape ☐ airline ☐ E-line ☐ 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., Waukee, IA. 50263

Driller Scott Deemer Certification no. 40753

white copy – Iowa DNR, Geological Survey Bureau blue copy – Well Contractor pink copy – Customer yellow copy – County Health Officer