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

# WELL RECORD S-2 73591

Permit No. 2010-1790

## Site identification

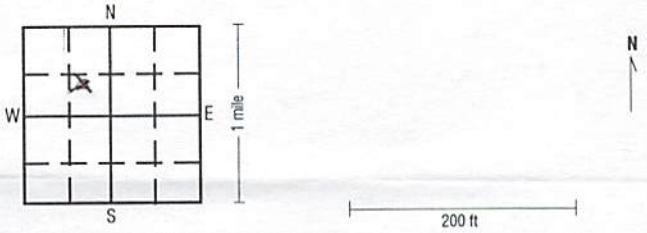
Property Owner: Osceola RWS  Well Number: S-2
Address: Box 37 Mayetta, Iowa 51349
Tenant:
Well Depth: 40 ft  Date completed: 11/10/10

## Location

County: Osceola

1/4 mi. N (S) and 1/4 mi. E (W) of intersection of A48 and M18
NW 1/4 of the NE 1/4 of the SE 1/4 of Sec. 27 TWP 98-N RNG 39 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 | 4 | Black | | Topsoil |
| 4 | 10 | Yellow | | Gravel |
| 10 | 40 | | Coarse | Gravel |

use additional sheets as needed

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## Remarks (including depth of lost drilling fluids, materials, or tools)

## Well use

☐ Domestic ☐ Livestock ☐ Test well ☐ Municipal ☑ Public supply ☐ Irrigation ☐ Commercial ☐ Monitoring ☐ Other (explain)

## Drill method

☐ rotary ☐ auger ☐ cable other Bucket

## Hole size

20 inch from 0 ft to 40 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) |
|---|---|---|---|---|
| 12" | Steel | -1 | 30 | 29' |

## Perforated or slotted casing? (yes / no) 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 (vol/wt) |
|---|---|---|---|
| Bentonite | -1 | 20' | Heavy |

## Well screen? (yes / no)

| Diameter | Slot size | Depth Top | Depth Bottom | Length | Material |
|---|---|---|---|---|---|
| 12 | 0.060 | 30 | 40' | 10' | SS |

Bottom capped (yes / no) yes with
Seals / Packers (yes / no) no kind depth ft
Gravel packed (yes / no) yes from 20 ft to 40 ft
3/16x#10 type Musselshell amount 14'

## Well developed? (yes / no) yes

Explain: Air surged & pump
(pumped, airlifted, bailed) pumped for 4 hrs at 400 GPM.

## Pump installed? (yes / no) yes

Date 11/10/10
Installer's name: James Lacey / Lacey Well Drilling
Type of pump: Grundfos / 4755-300-4AB Depth to intake ___ ft
Pump diameter: 6" Rated capacity: 475 GPM

## Water information

Aquifer: ☑ sand / gravel ☐ limestone ☐ sandstone
Main water-supply zone from 4 ft to 40 ft ☐ seepage well
Static water level 4 ft (below / above) GL; ☑ tape ☐ airline ☐ E-line ☐ estimate
Pumping water level 20 ft below GL; ☐ tape ☐ airline ☑ E-line ☐ estimate
At yield of 400 GPM; ☐ orifice ☐ volumetric ☐ estimate Flowmeter
Measurements taken at 1:00 (AM / PM) Date 6/25/10

## Water quality test? (yes / no) yes

Date tested 6/25/10
Tested by: Self OCRWS

Contractor: Lacey Well Drilling Co. / James Lacey
Address: 47582-240th St. Dell Rapids SD 57022
Driller: James Lacey Certification no. 3580

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