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

# WELL RECORD 46400

Permit No. 98-272W

## Site identification

Property Owner City of Shelby Well Number 6

Address P.O. Box 186, 419 E Street 51570

Tenant

Well Depth 48 ft Date Completed 7 / 3 / 98

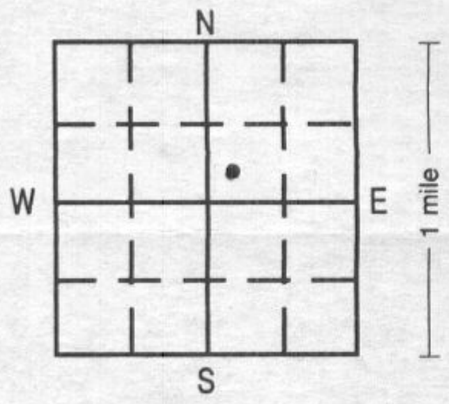
## Location

County Shelby

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

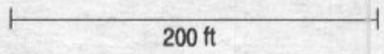
____ 1/4 of the SW 1/4 of the NE 1/4 of Sec 34 TWP 78 RNG 40 E/(W)

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 | | | Top Soil |
| 4 | 17 | | | Tan Clay |
| 17 | 32 | | | Blue Clay |
| 32 | 34 | | | Med Sand + gravel |
| 34 | 41 | | | Coarse gravel |
| 41 | 48 | | | Coarse gravel w/boulders |

use additional sheets as needed

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

## Well use

☐ Domestic ☐ Livestock ☐ Test Well
☒ Municipal ☐ Public Supply ☐ Irrigation
☐ Industrial ☐ Monitoring ☐ Other ____ (explain)

## Drill method

☐ rotary ☐ auger ☐ cable other reverse circ.

## Hole size

24 inch from 0 ft to 48 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 adaptor ( (yes) / no )

| Size (ID/OD) | Type / Wt | Depth top | Depth bottom | Amount (length) |
|---|---|---|---|---|
| 12" | 49.56/ft | + 2' | 37 | 39 |
| | | | | |
| | | | | |
| | | | | |

## Perforated or slotted casing? (yes / (no))

Perforated / slotted from ____ ft to ____ ft

Perforated / slotted from ____ ft to ____ ft

## Casing grouted? ( (yes) / no )

| Type | Depth Top | Depth Bottom | Amount |
|---|---|---|---|
| Neat Cement | 7 | 30 | 2 yds |
| | | | |

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

| Diameter | Slot size | Depth Top | Depth Bottom | Length | Material |
|---|---|---|---|---|---|
| 12" | .050" | 37 | 48 | 11' | SST |
| | | | | | |

Bottom capped ( (yes) / no ) with SST Plate

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

Gravel packed ( (yes) / no ) from 48 ft to 25 ft

type #1 amount 5 yds

## Well developed? ( (yes) / no )

Explain Surge + Bailed, Test Pumped

## 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 37 ft to 48 ft

Final water level ( static water level ) 8 ft ( (below) / above ) GL.

Pumping water level ____ ft below GL; ☐ tape ☐ airline ☐ E-line

At yield of ____ GPM; ☐ orifice ☐ volumetric ☐ estimate Date ____

## Water quality test? ( (yes) / no ) Date tested 7 / 6 / 98

Tested by Hygienic Lab

Test results

**Contractor** Layne - Western

**Address** 25450 Hwy 275 Valley, NE 68064

**Driller** Gary McCracken **Certification no.** 40285

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