100699

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

# WELL RECORD

Permit No. 2022-0370W

## Site identification

Property Owner Oskaloosa Water Dept. Well Number 36
Address US Highway 63 Well Field
Tenant City of Oskaloosa
Well Depth 53GL ft Date completed 5 / 23 / 22

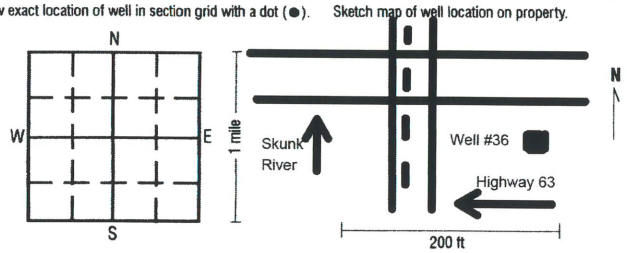
## Location

County Mahaska

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

SW 1/4 of the NE 1/4 of the SW 1/4 of Sec 25 TWP 76 RNG 16 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) 694 Ft.

## Formation log

| From | To | Color | Hardness | Formation description |
|---|---|---|---|---|
| 0 | 4 | | | Top soil |
| 4 | 11 | Brown | | Top soil with sand |
| 11 | 16 | Brown | | Clay |
| 16 | 20 | Gray | | Clay |
| 20 | 39 | Gray | | Find to coarse sand |
| 39 | 53 | Gray | | Coarse sand with cobbles and small rocks |

use additional sheets as needed

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

Casing is 17 feet above grade

## Well use

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

## Drill method

☐ rotary ☐ auger ☐ cable other Reverse

## Hole size

40 inch from 0 ft to 53 ft
____ inch from ____ ft to ____ 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) |
|---|---|---|---|---|
| 24 OD | .500/125# | +17 | 38 | 55 Ft. |
| | | | | |
| | | | | |
| | | | | |

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

Perforated / slotted from _____ ft to _____ ft
Perforated / slotted from _____ ft to _____ ft

## Casing grouted? (yes / no)

Placement method Tremie

| Type | Depth Top | Depth bottom | Amount (vol/wt) |
|---|---|---|---|
| Neat Cement | 15' above Grd level | 26 | 7 yards |
| | | | |

## Well screen? (yes / no)

| Diameter | Slot size | Depth Top | Depth Bottom | Length | Material |
|---|---|---|---|---|---|
| 24" | 0.060 | 38 | 53 | 15' 3" | SS |
| | 0.___ | | | | |

Bottom capped (yes / no) with Plate Bottom
Seals / Packers (yes / no) kind Bentonite depth 26 to 27 ft
Gravel packed (yes / no) from 53 ft to 27 ft
type #2 Northern amount 48,000#

## Well developed? (yes / no)

Explain Double disc surge block
(pumped, airlifted, bailed) for 7 hrs at 900 GPM.

## Pump installed? (yes / no)

Date 8 / 30 / 22
Installer's name Northway Well and Pump
Type of pump Submersible Depth to intake 57 ft
Pump diameter 8" Rated capacity 600 GPM

## Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone
Main water-supply zone from 35 ft to 53 ft ☐ seepage well
Static water level 7' 2" ft (below / above) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate
Pumping water level 24 ft below GL; ☐ tape ☐ airline ☒ E-line ☐ estimate
At yield of 640 GPM; ☐ orifice ☐ volumetric ☐ estimate Meter
Measurements taken at 2 : 00 (AM / PM) Date 6 / 21 / 22

## Water quality test? (yes / no)

Date tested 6 / ___ / 22
Tested by Hygienic Laboratory/Owner

Contractor Northway Well and Pump
Address 4895 8th Avenue - Marion, Iowa 52302
Driller Dan Glessner Certification no. 2651

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