076338 **WELL RECORD** [redacted] PWTS Permit No. _____

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

PWTS Well No. 9549073 County Permit No. 213-0042W

## Site identification

Property Owner City of Leland Well # 2 Other ID _____
Address 316 Walnut St.
Tenant Leland, IA 50453
Well Depth 225 ft Date completed 4 / 16 / 13

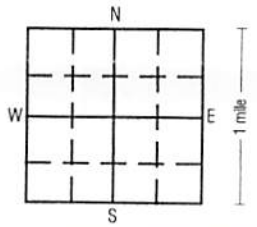
## Location

County Winnebago

_____ mi. N/S and _____ mi. E/W of intersection of 2nd Ave and C St.
NW 1/4 of the SW 1/4 of the NE 1/4 of Sec 1 TWP 98N RNG 24 E/W

GPS Coordinates (NAD83 datum only) decimal degrees:
_____ . _____ N. Latitude _____ . _____ W. Longitude.

Show exact location of well in section grid with a dot (•). Sketch map of well location on property.




Directly across the street from the water tower

N

200 ft

☐ upland ☐ hillside ☐ valley ☐ level surface Elevation (if known) _____

## Formation log

| From | To | Color | Hardness | Formation description |
|---|---|---|---|---|
| | | | | See Attached. |

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use additional sheets as needed

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

* See attached

## Well use

☐ Domestic ☐ Livestock ☐ Test well
☐ Heat pump ☒ Municipal ☐ Public supply ☐ Irrigation
☐ Commercial ☐ Monitoring ☐ Other _____

## Drill method

☐ rotary ☐ auger ☐ cable other _____

## Hole size

17.5 inch from 0 ft to 106 ft
12.5 inch from 106 ft to 180 ft
hole size continued
7 7/8 inch from 180 ft to 225 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) |
|---|---|---|---|---|
| 13 3/8" OD | | 0 | 106' | 106' |
| 8 5/8" OD | | 0 | 180 | 180' |
| | | | | |
| | | | | |

## 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) |
|---|---|---|---|
| Cement | 0 | 106' | 82 bags |
| Cement | 0 | 180 | 108 bags |

## Well screen? (yes / no)

| Diameter | Slot size | Depth top | Depth bottom | Length | Material |
|---|---|---|---|---|---|
| | 0.___ | | | | |
| | 0.___ | | | | |

Bottom capped (yes / no) with _____
Seals / Packers (yes / no) kind _____ depth _____ ft
Gravel packed (yes / no) from _____ ft to _____ ft
type _____ amount _____

## Well developed? (yes / no)

Explain pumped
(pumped, airlifted, bailed) for 24 hrs at 120 GPM

## Pump installed? (yes / no) Date 8 / 27 / 13

Installer's name Lloyd Wurzer / Cahoy Pump
Type of pump Grundfos Depth to intake 56 ft
Pump diameter 4" Rated capacity 120 GPM GPM

## Water information

Aquifer: ☐ sand / gravel ☒ limestone ☐ sandstone
Main water-supply zone from 180 ft to 225 ft ☐ seepage well
Static water level 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 120 GPM; ☐ orifice ☐ volumetric ☐ estimate for 24 hours
Measurements taken at 2:30 (AM / PM) Date 4 / 22 / 13

## Water quality test? (yes / no) Date tested 4 / 25 / 13

Tested by Lloyd Wurzer / Cahoy Pump

Contractor Cahoy Pump Service
Address 24568 - 150th Street Suite 200 Sumner, IA 50674
Driller Jeff Jodyn Certification no. 3331

Send original form to: **Iowa Department of Natural Resources – Geological Survey**
Make photocopies for: **Well Contractor, Customer, and County Health Department**

mailed on 9/3/13 - JSP

Cahoy

*Well And Pump Service*
Municipal • Industrial • Environmental

24568 150th Street • Suite 200
Sumner, Iowa 50674
(563) 578-1130
(563) 578-1135 *Fax*

200 Grant Street
P.O. Box 72
Marne, Iowa 51552
(712) 781-2030
(712) 781-2032 *Fax*

# DRILLER'S LOG

**CLIENT: Leland**

**WELL: 2**

**DATE STARTED: 03/26/13**

**DATE COMPLETED: 04/16/13**

**DRILLER/LIC.#: Jeff Joslyn 3331**

**County: Winnebago**

**PWISD #: 9549073**

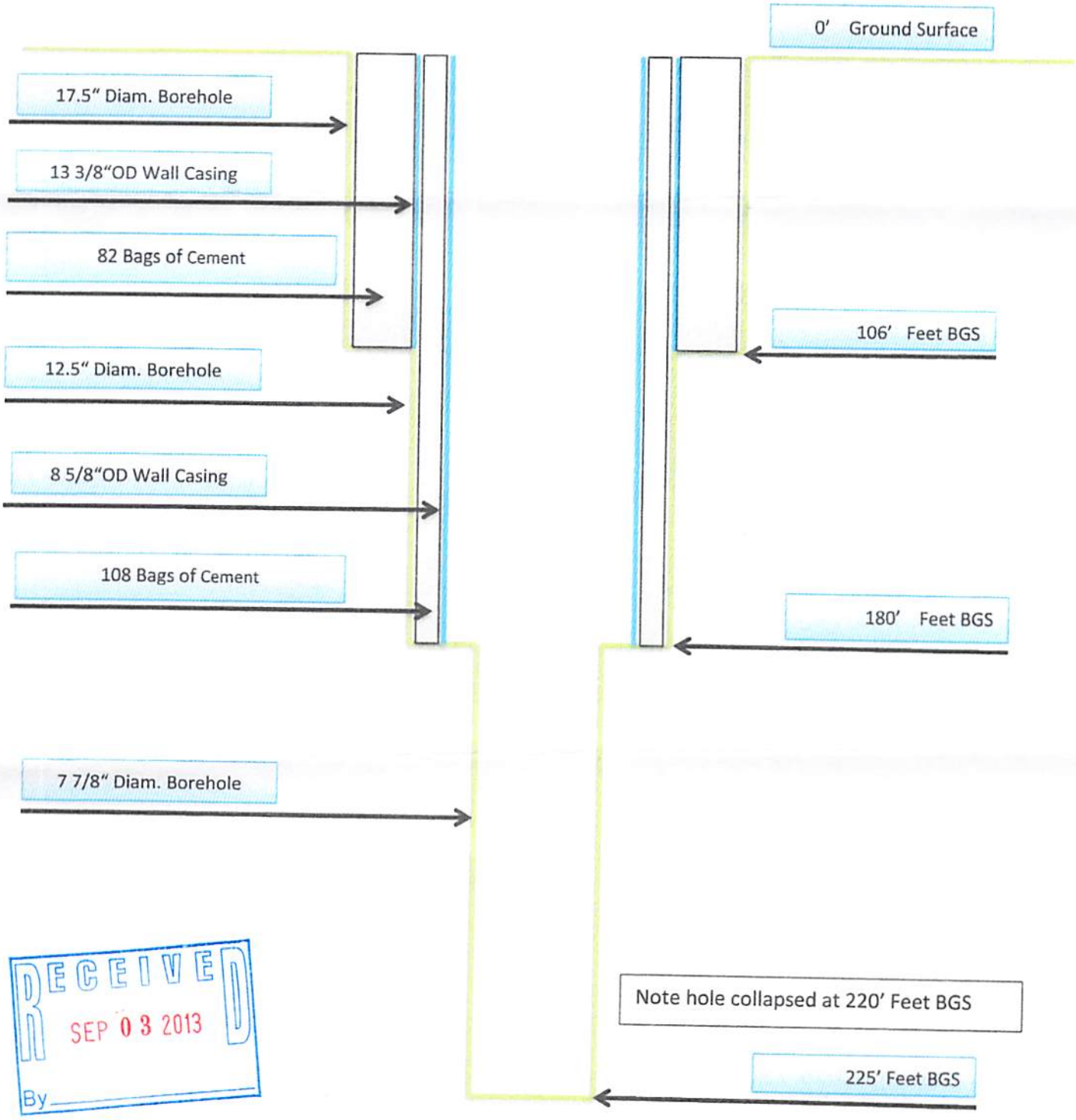
**Permit #: 2013-0042W**

| ROD# | LENGTH | DEPTH | FORMATION DESCRIPTION | DEPTH STARTED | DEPTH ENDED |
|---|---|---|---|---|---|
| | | | Dark brown silty clay | 0 | 5 |
| | | | Brown gray sand | 5 | 12 |
| | | | Fine coarse gray clayey sand | 12 | 40 |
| | | | Fine to medium gray silty sandy clay | 40 | 95 |
| | | | Brown gray limestone | 95 | 225 |
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Cahoy
**Well And Pump Service**
**Municipal, Industrial, Environmental**
24568 150th St. Ste. 200, Sumner, IA 50674
Tel: 563-578-1130, Fax: 563-578-1135

OWNER: Leland
WELL #:2
GPS:




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