Iowa Department of Natural Resources

WELL RECORD FORM

Geological and Water Survey

PWTS No. *or* PWS No. 716025 | PWTS Permit No. 2012-0267W | GEOSAM Well No. *(DNR use only)* 75569

Site Identification

Property owner City of Sanborn, Iowa | Other ID Well #8

Address 102 Main Street | City Sanborn

Tenant City of Sanborn

Well depth 77 ft | Date completed 12 / 6 / 2012

Location

County O'Brien

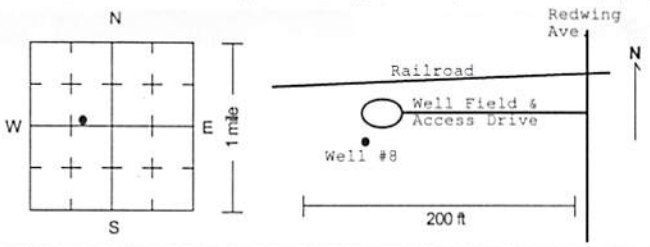
GPS coordinates (NAD83 datum)

43.1787440 Latitude | -95.6944140 Longitude

☑ Decimal Degrees ☐ Degrees, Decimal Minutes ☐ Degrees, Minutes, Seconds

SE 1/4 of the SE 1/4 of the NW 1/4 of Sec 33 TWP 97 RNG 41w E W

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



Formation Log

From	To	Color	Hardness	Formation description
0	1	Black		Clay
1	21	Brown		Clay
21	37	Brown		Clay w/gravel layers
37	42	Gray		Clay
42	53	Dk. Gray		Clay w/gravel layers
53	54			Limestone layer
54	56	Gray		Clay
56	63	Gray		Medium gravel w/some coarse
63	66	Gray		Clay
66	73	Gray		Medium gravel
73	77	Gray		Coarse gravel w/some medium
77	78	Dk. Brn.		Clay
78	80	Gray		Clay

(use additional sheets as needed)

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

Well Use

☐ Domestic ☑ Public supply ☐ Livestock

☐ Heat pump ☐ Commercial ☐ Irrigation

# of borehole(s) ____ ☐ Monitoring ☐ Other ____

Drill Method

☑ Rotary ☐ Auger ☐ Cable ☐ Other ____

Hole size

20 inch from 0 ft to 78 ft

____ inch from ____ ft to ____ ft

____ inch from ____ ft to ____ ft

hole size continued

____ inch from ____ ft to ____ ft

____ inch from ____ ft to ____ ft

Casing or Loop Pipe

Record all depth measurements from ground level (GL). Use + for above GL measurements.

Size (in)	Material	Depth Top	Depth Bottom	Perforated	Slotted	Screen
12"	Steel Casing A53	8'	54'	☐	☐	☐ slot size ____
12"	SST wire wrap	59'	62'	☐	☐	☑ slot size 0.100
12"	Steel Casing A53	62'	67'	☐	☐	☐ slot size ____
12"	SST wire wrap	67'	77'	☐	☐	☑ slot size 0.100
12x14	Pitless Unit	+2'	8'	☐	☐	☐ slot size ____

Casing Grout

Placement method Pressure Tremie

Type	Depth top	Depth bottom
Neat Cement Grout	8'	54'
☑ Gravel packed variety Northern #3 Pack	56	77
☑ Seals/packers (Bentonite)	54	56

Pump Installation

Date 12 / 6 / 12

Type of pump Submersible | Depth to intake 62 ft

Pump diameter 6 in | Rated capacity 300 GPM

Water Information

Date 9 / 19 / 12

Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
54 ft	61 ft	195 GPM	12.00 hrs

Water level measurement: ☐ Sonic ☐ Tape ☐ Airline ☑ E-line ☐ Estimate

Water yield measurement: ☑ Orifice ☐ Volumetric ☐ Estimate

Main water-supply zone from 59 ft to 77 ft below GL

Well Development

☑ Physical explain: Surge block, bailer, surge pumping

☐ Chemical explain: ____

Contractor

Company Layne Christensen Company

Address 3150 SE Gateway Drive, Suite B

Driller Mark Leslie | Certification no. 3684

Revision Date: 10/2011

Send form to **Iowa Department of Natural Resources – Geological and Water Survey**
109 Trowbridge Hall, Iowa City, IA 52242-1319 PH 319-335-1575 FAX 319-335-2754

Make photocopies for:
well contractor, customer, and county health department