



PWTS No. or PWS No. 716025

PWTS Permit No. 2012-0267W

GEOSAM Well No. (DNR use only)

75568

Site Identification

Property owner City of Sanborn, Iowa Other ID Well #7

Address 102 Main Street City Sanborn

Tenant City of Sanborn

Well depth 77 ft Date completed 12 / 6 / 2012

Location

County O'Brien

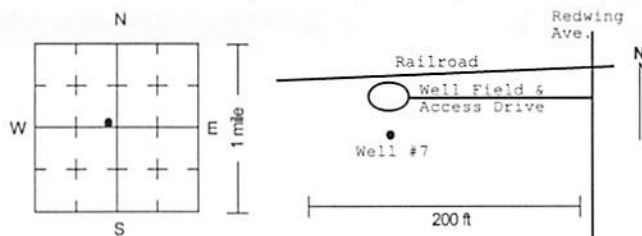
GPS coordinates (NAD83 datum)

43.1787440 Latitude -95.6947860 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.

Drill Method ☒ Rotary ☐ Auger ☐ Cable ☐ Other

Hole size

20 inch from 0 ft to 78 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'	61'	☐	☐	☐ slot size
12"	SST wire wrap	61'	65'	☐	☐	☒ slot size 0.100
12"	Steel Casing A53	65'	69'	☐	☐	☐ slot size
12"	SST wire wrap	69'	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'

Formation Log

From	To	Color	Hardness	Formation description
0	1	Black		Clay
1	23	Brown		Clay
23	42	Brown		Clay w/gravel layers
42	51	Gray		Sandy clay
51	56	Gray		Clay
56	66	Gray		Coarse gravel w/some medium
66	68	Gray		Clay
68	77	Gray		Medium gravel w/some coarse
77	80	Brown		Clay

☒ 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 / 18 / 12

Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
52 ft	62 ft	211 GPM	12.00 hrs

Water level measurement: ☐ Sonic ☐ Tape ☐ Airline ☒ E-line ☐ EstimateWater yield measurement: ☒ Orifice ☐ Volumetric ☐ Estimate

Main water-supply zone from 61 ft to 77 ft below GL

Well Development

☒ Physical explain: Surge block, bailer, surge pumping☐ Chemical explain:

Contractor

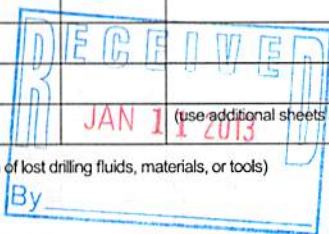
Company Layne Christensen Company

Address 3150 SE Gateway Drive, Suite B

Driller Mark Leslie Certification no. 3684

Revision Date: 10/2011

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