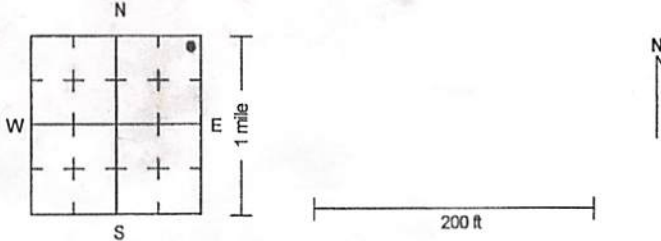


PWTS No. or PWS No. 8486053 PWTS Permit No. _____ GEOSAM Well No. (DNR use only) _____

Site Identification
 Property owner City of Sioux Center Other ID _____
 Address 335 First Ave., NW City Sioux Center
 Tenant _____
 Well depth 360 ft Date completed 6 / 6 / 2012

Drill Method Rotary Auger Cable Other _____
Hole size
30 inch from 0 ft to 360 ft hole size continued _____ inch from _____ ft to _____ ft
 _____ inch from _____ ft to _____ ft _____ inch from _____ ft to _____ ft

Location County _____
 GPS coordinates (NAD83 datum)
43.0690000 Latitude -96.1961389 Longitude
 Decimal Degrees Degrees, Decimal Minutes Degrees, Minutes, Seconds
NE 1/4 of the NE 1/4 of the NE 1/4 of Sec 7 TWP 95 RNG 45 E W
 Show exact location of well in section grid with a dot (.). Sketch map of well location on property.


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
16	PVC	0	210	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
16	Stainless O-Wire	320	360	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> slot size <u>.025</u>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____

Casing Grout Placement method _____

Type	Depth top	Depth bottom
Concrete Grout	0	210
Bentonite Seal	210	220
<input checked="" type="checkbox"/> Gravel packed variety <u>Chlorinated</u>	220	360
<input type="checkbox"/> Seals/packers		

Formation Log

From	To	Color	Hardness	Formation description
0	20	Brown	Loose	Topsoil with cobbles
20	33	Brown	Dense	Clay with cobbles
33	40	Tan	Dense	Fine/med sand & fine/med gravel
40	42	Tan	Loose	Sand and gravel
42	53	Brown	Dense	Clay, coarse gravel layer
53	60	Gray	Dense	Clay
60	80	Gray	Dense	Clay with cobbles
80	100	Gray	Dense	Clay
100	120	Gray	Dense	Clay with fine/med sand layer
120	140	Gray	Dense	Clay
140	193	Gray	Dense	Clay w/fine & med sand strips
193	200	Gray	Dense	Sandy clay w/gravel
200	220	Gray	Dense	Sandy clay w/fine sand layers
220	240	Tan	Dense	Coarse sand & fine gravel
240	272	Tan	Dense	sand and fine gravel
272	280	Tan	Dense	Fine/med sand w/hard streaks
280	300	Tan	Dense	Fine/med sand & gravel (use additional sheets as needed)


Pump Installation Date ____/____/____
 Type of pump Grundfos Depth to intake 331 ft
 Pump diameter 6 in Rated capacity _____ GPM

Water Information Date ____/____/____
 Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
<u>271</u> ft	<u>301</u> ft	<u>400</u> GPM	<u>30.00</u> hrs

Water level measurement: Sonic Tape Airline E-line Estimate
 Water yield measurement: Orifice Volumetric Estimate
 Main water-supply zone from _____ ft to _____ ft below GL

Well Development
 Physical explain: _____
 Chemical explain: _____

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


Contractor
 Company Charles Sargent Irrigation Company, Inc.
 Address 2016 Industrial Park Road, Carroll, IA 51401
 Driller _____ Certification no. _____

Well Use
 Domestic Public supply Livestock
 Heat pump Commercial Irrigation
 # of borehole(s) _____ Monitoring Other _____

PWTS No. or PWS No. 8486053 PWTS Permit No. GEOSAM Well No. (DNR use only)

Site Identification

Property owner City of Sioux Center Other ID Address 335 First Ave., NW City Sioux Center Tenant Well depth 360 ft Date completed 6 / 6 / 2012

Drill Method [X] Rotary [] Auger [] Cable [] Other

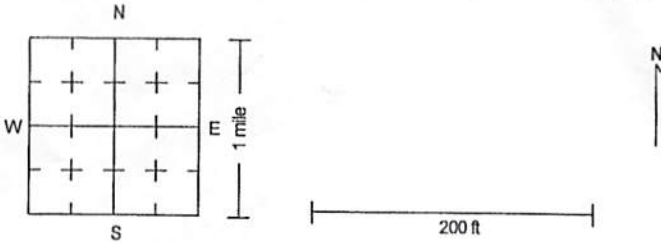
Hole size 30 inch from 0 ft to 360 ft hole size continued

Location

County GPS coordinates (NAD83 datum) 43.0690000 Latitude -96.1961389 Longitude

[X] Decimal Degrees [] Degrees, Decimal Minutes [] Degrees, Minutes, Seconds NE 1/4 of the NE 1/4 of the NE 1/4 of Sec 7 TWP 95 RNG 45 E W

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



Casing or Loop Pipe

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

Table with columns: Size (in), Material, Depth Top, Depth Bottom, Perforated, Slotted, Screen. Rows include PVC at 0-210 ft and Stainless O-Wire at 320-360 ft.

Casing Grout

Table with columns: Type, Placement method, Depth top, Depth bottom. Rows include Concrete Grout (0-210), Bentonite Seal (210-220), and Gravel packed variety Chlorinated (220-360).

Formation Log

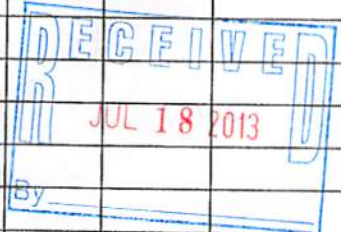
Table with columns: From, To, Color, Hardness, Formation description. Rows describe layers from 300 to 380 ft depth.

Pump Installation

Date Type of pump Grundfos Depth to intake 331 ft Pump diameter 6 in Rated capacity GPM

Water Information

Table with columns: Static Water Level, Pumping Water Level, Yield, Duration. Values: 271 ft, 301 ft, 400 GPM, 30.00 hrs.



Water level measurement: [] Sonic [] Tape [] Airline [] E-line [] Estimate Water yield measurement: [] Orifice [] Volumetric [] Estimate Main water-supply zone from ft to ft below GL

Well Development

[] Physical explain: [] Chemical explain:

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

Well Use

[] Domestic [X] Public supply [] Livestock [] Heat pump [] Commercial [] Irrigation # of borehole(s) [] Monitoring [] Other

Contractor

Company Charles Sargent Irrigation Company, Inc. Address 2016 Industrial Park Road, Carroll, IA 51401 Driller Certification no.