

PWTS No. or PWS No. <u>1811001</u>		PWTS Permit No. _____		GEOSAM Well No. (DNR use only) _____	
------------------------------------	--	-----------------------	--	--------------------------------------	--

Site Identification

Property owner Cherokee RWD Other ID _____

Address 1593 580th Street City Cherokee

Tenant _____

Well depth 241 ft Date completed 4 / 11 / 2012

Location

County Cherokee

GPS coordinates (NAD83 datum)
42.6776389 Latitude -95.5668611 Longitude

☒ Decimal Degrees ☐ Degrees, Decimal Minutes ☐ Degrees, Minutes, Seconds

SE 1/4 of the SE 1/4 of the SE 1/4 of Sec 21 TWP 91 RNG 40 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

<u>30</u> inch from <u>0</u> ft to <u>241</u> 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
16	PVC	0	130	☐	☐	☐ slot size _____
16	Stainless V-ire	180	241	☐	☒	☒ slot size <u>.035</u>
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____

Casing Grout

Placement method _____

Type	Depth top	Depth bottom
Neat Cement	0	130
Bentonite Seal	130	140
☒ Gravel packed variety <u>Chlorinated</u>	140	241
☐ Seals/packers		

Pump Installation

Date ____/____/____

Type of pump Goulds Depth to intake 120 ft

Pump diameter 8 in Rated capacity _____ GPM

Water Information

Date ____/____/____

Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
<u>55</u> ft	<u>90</u> ft	<u>800</u> GPM	<u>24.00</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: _____

Contractor

Company Charles Sargent Irrigation Company, Inc.

Address 2016 Industrial Park Road, Carroll, IA 51401

Driller _____ Certification no. _____

Formation Log

From	To	Color	Hardness	Formation description
0	3	Brown	Loose	Topsoil and cobbles
3	8	Tan	Loose	sand and gravel
8	20	Gray	Dense	Clay
20	28	Gray	Dense	Clay and cobbles
28	31	Black	Hard	Rock
31	52	Tan	Loose	Gravel and cobbles
52	60	Brown	Dense	Clay
60	80	Gray	Dense	Clay
80	111	Gray	Dense	Clay with cobbles
111	120	Tan	Fine	Sandstone
120	132	Gray	Hard	Shale with sandstone strips
132	140	Tan	Dense	Sandstone & gray shale layers
140	210	Tan	Fine	Sandstone and gravel
210	241	Tan	Dense	Sandstone and gravel
241	251	Red	Hard	Shale
251	264	Tan	Dense	Sandstone
264	280	White	Hard	Shale

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

By _____

RECEIVED JUL 18 2013

Use additional sheets as needed