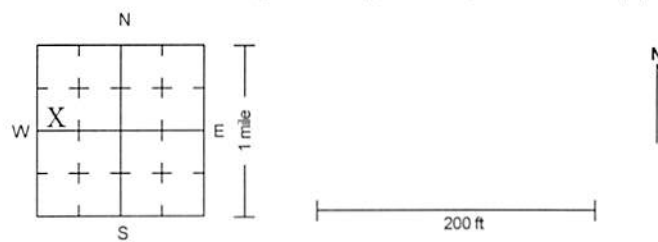


PWTS No. or PWS No. _____ PWTS Permit No. _____ GEOSAM Well No. (DNR use only) _____

Site Identification
 Property owner City of Battle Creek Other ID #6
 Address 115 Main Street City Battle Creek
 Tenant _____
 Well depth 160 ft Date completed 3 / 31 / 2014

Drill Method Rotary Auger Cable Other _____
Hole size
24 inch from 0 ft to 160 ft _____ inch from _____ ft to _____ ft
 _____ inch from _____ ft to _____ ft _____ inch from _____ ft to _____ ft

Location County Ida
 GPS coordinates (NAD83 datum)
42.3207220 Latitude 95.5907500 Longitude
 Decimal Degrees Degrees, Decimal Minutes Degrees, Minutes, Seconds
 NW 1/4 of the NW 1/4 of the NW 1/4 of Sec 26 TWP 87 RNG 41 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
12	Steel	0	120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
12	SS V-wire	134	155	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> slot size <u>.030</u>
12	Steel Sump	155	160	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
				<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
Neat Cement	0	120
Bentonite Seal	120	130
<input checked="" type="checkbox"/> Gravel packed variety <u>Chlorinated</u>	130	160
<input type="checkbox"/> Seals/packers		

Formation Log

From	To	Color	Hardness	Formation description
0	10	brown	loose	top soil & clay
10	20	tan	dense	sand and fine gravel
20	40	tan	dense	gravel & hard layers
40	48	tan	dense	sand & med/coarse gravel
48	60	tan	dense	clay
60	134	blue	dense	sticky clay with cobbles
134	140	blue	dense	medium, coarse sand
140	155	blue	dense	sand with clay streaks
155	160	green	dense	sandy clay & blue clay
160	170	green	dense	sandy clay with sand streaks
170	180	red	hard	shale

By _____ (use additional sheets as needed)

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

Water Information Date 4 / 15 / 2014
 Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
<u>65</u> ft	<u>89</u> ft	<u>151</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 134 ft to 155 ft below GL

Well Development
 Physical explain: Double Disc Surge Block
 Chemical explain: Aqua Clear PFD

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 Derek Schweitzer Certification no. 8338
 Revision Date: 10/2011

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