

8 0 4 6 3

WELL RECORD

PWTS Permit No. _____

Iowa Department of Natural Resources – Geological Survey
109 Trowbridge Hall, Iowa City, IA 52242-1319 PH (319) 335-1575

PWTS Well No. _____

County Permit No. _____

Site identification
 Property Owner City of Sioux Center Other ID Well #17
 Address 335 First Ave., NW, Sioux Center, IA 51250
 Tenant _____
 Well Depth 345 ft Date completed 4 / 28 / 15

Location County Sioux
 _____ mi. ^N and _____ mi. ^E of intersection of _____ and _____
 _____ 1/4 of the NE 1/4 of the NE 1/4 of Sec 7 TWP 95 RNG 45 ^E _W
 GPS Coordinates (NAD83 datum only) decimal degrees:
43 . 066861 N. Latitude 96 . 196028 W. Longitude.
 Show exact location of well in section grid with a dot (•). Sketch map of well location on property.

upland hillside valley level surface Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	20	tan	loose	top soil w/cobbles
20	100	gray	dense	clay w/cobbles
100	120	gray	dense	sandy clay w/cobbles
120	140	brown	dense	sandy clay
140	160	brown	dense	sandy clay w/cobbles
160	220	gray	dense	sandy clay w/limestone ledges
220	225	gray	dense	sandy clay
225	240	blue	loose	medium/coarse sand
240	260	blue	loose	sand/fine gravel/clay streaks
260	280	blue	loose	sand/fine, medium gravel
280	298	tan	dense	sand/gravel/clay streaks
298	300	tan	hard	hard layer
300	317	tan	dense	sand/gravel/clay strekas
317	320	gray	dense	clay

use additional sheets as needed

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

Well use

<input type="checkbox"/> Domestic	<input type="checkbox"/> Heat pump	<input type="checkbox"/> Commercial
<input type="checkbox"/> Livestock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Test well	<input checked="" type="checkbox"/> Public supply	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Irrigation	

Drill method rotary auger cable other _____
Hole size
30 inch from 0 ft to 345ft
 _____ inch from _____ ft to _____ ft
 _____ inch from _____ ft to _____ ft

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

Casing Drive shoe (yes / no) Pitless adapter (yes / no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
16	375 steel	0	308	
16	V-wire	317	322	

Perforated or slotted casing? (yes / ~~no~~)
 Perforated / slotted from 308 ft to 317 ft
 Perforated / slotted from 322 ft to 345 ft

Casing grouted? (yes / no) Placement method _____

Type	Depth top	Depth bottom	Amount (vol/wt)
Neat Cement	5	210	25 yards
Bentonite	210	222	

Well screen? (yes / no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
16	0.020	308	317		Stainless
16	0.020	322	345		V-wire

Bottom capped (yes / no) with Stainless Steel
 Seals / Packers (yes / no) kind _____ depth _____ ft
 Gravel packed (yes / no) from 222 ft to 345 ft
 type O amount 10 bags

Well developed? (yes / ~~no~~)
 Explain Double disc surge block
 (pumped, airlifted, bailed) for 16 hrs at 300 GPM

Pump installed? (yes / ~~no~~) Date 06 / 23 / 15
 Installer's name Charles Sargent Irrigation Co., Inc.
 Type of pump Grundfos Depth to intake 313 ft
 Pump diameter 6" Rated capacity 300 GPM

Water information Aquifer: sand / gravel limestone sandstone
 Main water-supply zone from 308 ft to 345 ft seepage well
 Static water level 268 ft (below / above) GL; tape airline E-line estimate
 Pumping water level 290 ft below GL; tape airline E-line estimate
 At yield of 319 GPM; orifice volumetric estimate for 2 hours
 Measurements taken at _____: _____ (AM / PM) Date 06 / 23 / 15

Water quality test? (yes / ~~no~~) Date tested _____ / _____ / _____
 Tested by City of Sioux Center

Contractor Charles Sargent Irrigation Company, Inc.
 Address 2016 Industrial Park Road, Carroll, IA 51401
 Driller Derek Schweitzer Certification no. 8338

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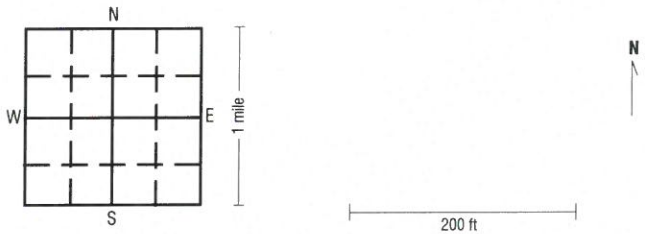
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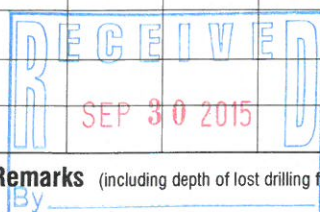
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Tenant
Well Depth ft Date completed / /

Location
County
mi. N and mi. E of intersection of and
1/4 of the 1/4 of the 1/4 of Sec TWP RNG E W
GPS Coordinates (NAD83 datum only) decimal degrees:
N. Latitude W. Longitude.
Show exact location of well in section grid with a dot (•). Sketch map of well location on property.



upland hillside valley level surface Elevation (if known)

Formation log table with columns: From, To, Color, Hardness, Formation description. Rows include sand with clay layers, sand with fine layers, shale with hard ledges, fine sandstone, etc.



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

Well use
Domestic, Livestock, Test well, Heat pump, Municipal, Public supply, Irrigation, Commercial, Monitoring, Other

Drill method rotary auger cable other
Hole size inch from ft to ft hole size continued

Casing table with columns: Size (ID/OD), Type / Wt, Depth top, Depth bottom, Amount (length). Includes Drive shoe and Pitless adapter options.

Perforated or slotted casing? (yes / no)
Perforated / slotted from ft to ft

Casing grouted? (yes / no) Placement method
Type, Depth top, Depth bottom, Amount (vol/wt)

Well screen? (yes / no)
Diameter, Slot size, Depth top, Depth bottom, Length, Material
Bottom capped (yes / no) with
Seals / Packers (yes / no) kind depth
Gravel packed (yes / no) from to ft type amount

Well developed? (yes / no)
Explain
(pumped, airifted, bailed) for hrs at GPM

Pump installed? (yes / no) Date / /
Installer's name
Type of pump Depth to intake ft
Pump diameter Rated capacity GPM

Water information
Aquifer: sand / gravel limestone sandstone
Main water-supply zone from ft to ft seepage well
Static water level ft (below / above) GL; tape airline E-line estimate
Pumping water level ft below GL; tape airline E-line estimate
At yield of GPM; orifice volumetric estimate for hours
Measurements taken at (AM / PM) Date / /

Water quality test? (yes / no) Date tested / /
Tested by

Contractor
Address
Driller Certification no.