

WELL RECORD

74211

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 Randy's Bluffton Store Other ID _____
 Address 2619 W. Ravine Rd
 Tenant Randy Logsdon
 Well Depth 310 ft Date completed 04/12/11

Location County Winneshiek

_____ 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

From	To	Color	Hardness	Formation description
0	5			Drift
5	17			Sand & Gravel
17	55	Grey		Shale
55	95	Grey		Rock
95	100	Blue		Shale
100	160	White		Sand Rock
160	230	Brown		Rock
230	260	White		Sandrock
260	310	Grey		Rock

use additional sheets as needed

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

received
11-15-11

Well use

Domestic Heat pump Commercial
 Livestock Municipal Monitoring
 Test well Irrigation Other _____

Drill method rotary auger cable other _____

Hole size

<u>15</u> inch from <u>0</u> ft to <u>18</u> ft	hole size continued
<u>12</u> inch from <u>18</u> ft to <u>210</u> ft	<u>6</u> inch from <u>210</u> ft to <u>310</u> ft
_____ 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) _____ Pileless adapter (yes/no) _____

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
14"	Steel	+1	18'	19'
6"	Steel	+1	210	211'

Perforated or slotted casing? (yes/no) no

Perforated / slotted from _____ ft to _____ ft
 Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes/no) yes Placement method pressure pump

Type	Depth top	Depth bottom	Amount (vol/wt)
neat cement	0	210	140 bags

Well screen? (yes/no) no

Diameter	Slot size	Depth top	Depth bottom	Length	Material
	0. _____				
	0. _____				

Bottom capped (yes/no) no with _____
 Seals / Packers (yes/no) no kind _____ depth _____ ft
 Gravel packed (yes/no) no from _____ ft to _____ ft
 type _____ amount _____

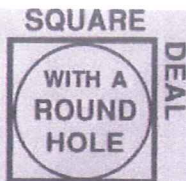
Well developed? (yes/no) yes
 Explain air lifted
 (pumped airlifted balled) for 2 hrs at 45 GPM

Pump installed? (yes/no) yes Date 8/10/11
 Installer's name Russell Larson
 Type of pump J-Class Depth to intake 86 ft
 Pump diameter 4 Rated capacity 25 GPM

Water information Aquifer: sand / gravel limestone sandstone
 Main water-supply zone from 240 ft to 310 ft seepage well
 Static water level 17 ft (below / above) GL; tape airline E-line estimate
 Pumping water level 86 ft below GL; tape airline E-line estimate
 At yield of 30 GPM; orifice volumetric estimate for 4 hours
 Measurements taken at 1:00 AM (PM) Date 8/10/11

Water quality test? (yes/no) yes Date tested 8/17/11
 Tested by Randy Logsdon

Contractor Larson Well Drilling
 Address 45207-160th St. Mabel MN. 55954
 Driller Dave Ragan Certification no. 4631



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Test pumping results for Bluffton Storm
 Static water level 10 feet

10:00 am	50 gpm	draws down 55 feet
1:00 am	48 gpm	draws down 60 feet
2:00 pm	48 gpm	draws down 60 feet
1:00 pm	48 gpm	draws down 60 feet
2:00 pm	48 gpm	draws down 60 feet
3:00 pm	48 gpm	draws down 60 feet
4:00 pm	48 gpm	draws down 60 feet
5:00 pm	48 gpm	draws down 60 feet
6:00 pm	48 gpm	draws down 60 feet
7:00 pm	48 gpm	draws down 60 feet
8:00 pm	48 gpm	draws down 60 feet
9:00 pm	48 gpm	draws down 60 feet
10:00 pm	48 gpm	draws down 60 feet
11:00 pm	48 gpm	draws down 60 feet
12:00 am	48 gpm	draws down 60 feet
1:00 am	48 gpm	draws down 60 feet
2:00 am	48 gpm	draws down 60 feet
3:00 am	48 gpm	draws down 60 feet
4:00 am	48 gpm	draws down 60 feet
5:00 a.m.	48 gpm	draws down 60 feet
6:00 a.m.	48 gpm	draws down 60 feet
7:00 a.m.	48 gpm	draws down 60 feet
8:00 a.m.	48 gpm	draws down 60 feet
9:00 a.m.	48 gpm	draws down 60 feet
10:00 a.m.	48 gpm	draws down 60 feet

