64933

WELL RECORD

PWTS Permit No. 2007-0299 W

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 Rural Water #1 R Other ID _____

Address 4438 380th St. Hospers, IA

Tenant _____

Well Depth 309 ft Date completed 3 / 17 / 08

Location

County Sioux

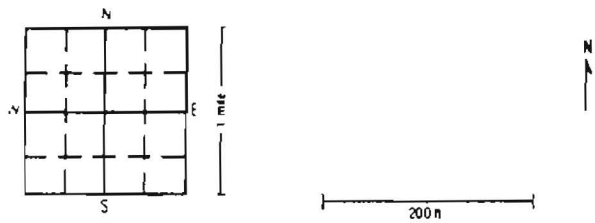
___ m ☐N ☐S and ___ m ☐E ☐W of intersection of _____ and _____

___ 1/4 of the SE 1/4 of the SW 1/4 of Sec. 5 TWP 95 RNG 45 ☐E ☒W

GPS coordinates (NAD83 datum only) decimal degrees:

43° 04' 12.9565" N Latitude 96° 11' 31.2109" 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) 1431

Formation log

From	To	Color	Hardness	Formation description
0	3	Black	soft	Topsoil
3	45	Brown	soft	Clay
45	61	Brown	soft	Clay w/ pebbles
61	195	Grey	med	Clay w/some gravel + sand
195	262	Grey	soft	clay w/ pebbles
262	296			med sand / sandstone
296	304	Brown		med sand / sandstone / gray clay streaks
304	308	Brown		Boulders
308	339	Grey	med	Grey clay w/ fine sand

use additional sheets as needed

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

Well use

☐ Domestic ☐ Livestock ☐ Test well ☐ Heat pump ☐ Municipal ☒ Public supply ☐ Irrigation ☐ Commercial ☐ Monitoring ☐ Other _____

Drill method

☐ rotary ☐ auger ☐ cable other Reverse

Hole size

32 inch from 0 ft to 140 ft

24 inch from 140 ft to 309 ft

Hole size continued

___ 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)
24"		0	140'	140'
12"	49.56/ft	1.5'	279'	280.5'

Perforated or slotted casing? (yes ☒ no)

Perforated / slotted from _____ ft to _____ ft

Perforated / slotted from _____ ft to _____ ft

Casing grouted? (☒ yes no) Placement method Tremie

Type	Depth top	Depth bottom	Amount (vol/wt)
Neat Cement	239	10	

Well screen? (☒ yes no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
12"	0.035	279	309	30	
	0___				

Bottom capped (☒ yes / no) with Stainless Steel Plate

Seals / Packers (yes / ☒ no) kind _____ depth _____ ft

Gravel packed (☒ yes / no) from 309 ft to 239 ft

type _____ amount _____

Well developed? (☒ yes no)

Explain Surge, bail, jetted

(pumped, airlifted, bailed) for _____ hrs at _____ GPM

Pump installed? (☒ yes no) Date 3 / 13 / 08

Installer's name Kenny Mohr

Type of pump Submersible Depth to intake 286 ft

Pump diameter 6" Rated capacity 300 GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone

Main water-supply zone from 279 ft to 309 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 RW #1

Contractor Morrell Co.

Address P.O. Box 908 Waukee, IA 50263

Driller Darrin Cahey Certification no. 1786

Send original form to: Iowa Department of Natural Resources – Geological Survey

Make photocopies for: Well Contractor, Customer, and County Health Department

11 21 2006