WELL RECORD 73298

PWTS Permit No. 2010-361W

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

PWTS Well No. 5

County Permit No. _____

Site identification

Property Owner City of LaPorte Utilities Other ID Well #5

Address 200 Main Street

Tenant Utility, LaPorte City, IA 50651

Well Depth 1400 ft Date completed 04 / 05 / 11

Location

County Black Hawk

250 Adams Street

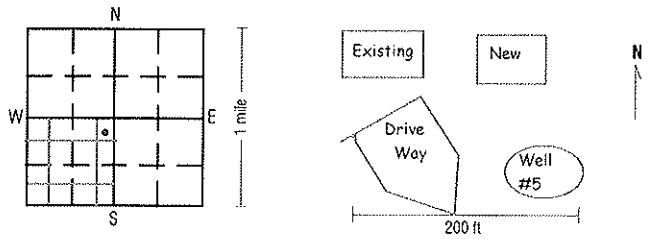
_____ mi. N/S and _____ mi. E/W of intersection of _____ and _____

NW SW 1/4 of the NE 1/4 of the SW 1/4 of Sec 25 TWP 87 RNG 12 E/W

GPS Coordinates (NAD83 datum only) decimal degrees:

42.31 degrees _____ N. Latitude 92.20 Degrees _____ 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) 831'

Formation log

From	To	Color	Hardness	Formation description
0	35	BRN	Stiff	Clay & Gravel
35	40	BRN		Broken Limestone
40	55	Gray	Hard	Gray Limestone
55	100	Blue	Med	Shale-Lime Mix
100	195	Brn/Wt	Med	Lime w/ Shale Streaks
195	445	BLK	Sticky	Mostly Shale
445	730	Wt/Brn	Hard	Limestone Shale Streaks
730	875	Gray	Hard	Limestone Shale Streaks
875	950	Gry/Tn	Hard	Limestone Shale Mix
950	1270	Tan	Hard	Tan/Gray Limestone
1270	1290	Tan	Hard	Sandy Limestone
1290	1414	Tan	Med	Sandstone

use additional sheets as needed

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

Very Tight Formation Throughout

Well use

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

Drill method

☒ rotary ☐ auger ☐ cable other _____

Hole size

24 inch from 0 ft to 50 ft

19 inch from 50 ft to 265 ft

hole size continued

15 inch from 265 ft to 950 ft

10 inch from 950 ft to 1414 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)
20	ASTMA53 78.6 #/ft	0	50	50
16	62.58 #/ft	0	265	265
10	40.48 #/ft	0	950	950

Perforated or slotted casing? (yes / no)

Perforated / slotted from n/a ft to _____ ft

Perforated / slotted from n/a ft to _____ ft

Casing grouted? (yes / no) Placement method shoe

Type	Depth top	Depth bottom	Amount (vol/wt)
neat cement	0	50	150 bags
neat cement	0	950	640 bags

Well screen? (yes / no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
n/a	0.___				
	0.___				

Bottom capped (yes / no) with _____

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

Gravel packed (yes / no) from _____ ft to _____ ft

type _____ amount _____

Well developed? (yes / no)

Explain Airburst & Pumped

(pumped, airlifted, bailed) for 12 hrs at 500+ GPM

Pump installed? (yes / no) Date ___ / ___ / ___

Installer's name Municipal Well and Pump

Type of pump Submersible Depth to intake 430 ft

Pump diameter 7.5" Rated capacity 500 GPM

Water information

Aquifer: ☐ sand / gravel ☐ limestone ☒ sandstone

Main water-supply zone from 1300 ft to 1400 ft ☐ seepage well

Static water level 165 ft (below / above) GL; ☐ tape ☒ airline ☐ E-line ☐ estimate

Pumping water level 409 ft below GL; ☐ tape ☒ airline ☐ E-line ☐ estimate

At yield of 590 GPM; ☒ orifice ☐ volumetric ☐ estimate for 12 hours

Measurements taken at 04.00 (AM / PM) Date 04 / 05 / 11

Water quality test? (yes / no) Date tested 01 / 11 / 11

Tested by State Lab

Contractor Municipal Well and Pump

Address 1212 Storbeck Dr., Waupun, WI 53963

Driller MWP Certification no. 8506

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

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