WELL RECORD FORM

PWTS No. *or* PWS No. _____ PWTS Permit No. _____ GEOSAM Well No. *(IGS use only)* 94230

Site Identification

Property owner CITY OF VARINA (PG 1) Other ID _____

Address MAIN ST City VARINA

Tenant CITY WELL #5

Well depth 312.6 ft Date completed 7 / 3 / 2019

Drill Method

☑ Rotary ☐ Auger ☐ Cable ☐ Other _____

Hole size

10 inch from 0 ft to 302 ft

6 inch from 302 ft to 312.5 ft

hole size continued

_____ inch from _____ ft to _____ ft

_____ inch from _____ ft to _____ ft

Location

County POCAHONTAS

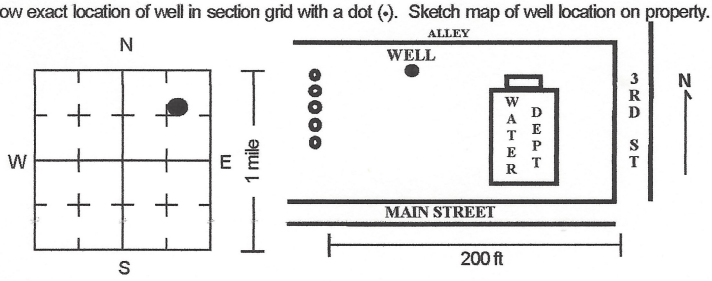
GPS coordinates (NAD83 datum)

42.65861 Latitude -94.89975 Longitude

☑ Decimal Degrees ☐ Degrees, Decimal Minutes ☐ Degrees, Minutes, Seconds

SW 1/4 of the NE 1/4 of the NE 1/4 of Sec 31 TWP 91 RNG 34 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
6	PVC/SDR 21	18"+	162	☐	☐	☐ slot size _____
6 1/4	PVC/SDR 17	162	302	☐	☐	☐ slot size _____
4	PVC/SDR 21	287	302	☐	☐	☐ slot size _____
4P5T	STAINLESS	302	312.5	☐	☐	☑ slot size 18
				☐	☐	☐ slot size _____

Casing Grout

Placement method TRIMMIE

Type	Depth Top	Depth Bottom	Amount (vol/wt)
BEN-SEAL EZ	SURFACE	260	13 BAGS
☑ Gravel packed variety 2040 UNIUM	287	312	220 LBS
☐ Seals/packers			

Formation Log

From	To	Color	Hardness	Formation description
0	5	BLACK		TOPSOIL
5	6	TAN		CLAY
6	18	YELLOW		CLAY
18	19			GRAVEL
19	48	BLUE		CLAY
48	54			GRAVEL
54	158	BLUE		CLAY
158	163	YELLOW		CLAY
163	169			GRAVEL
169	194	YELLOW		SHALE
194	206	BLUE		SHALE
206	296	BLUE		SANDY SHALE
296	299			SAND NO WATER
299	304	BLUE		SANDY SHALE
304	311			SAND
CONT.				
				(use additional sheets as needed)

Pump Installation

Date ___/___/___

Type of pump _____ Depth to intake _____ ft

Pump diameter _____ in Rated capacity _____ GPM

Water Information

Date 7 / 2 / 19

Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
113 ft	213 ft	53 GPM	24 hrs

Water level measurement: ☐ Sonic ☐ Tape ☐ Airline ☑ E-line ☐ Estimate

Water yield measurement: ☐ Orifice ☐ Volumetric ☑ Estimate

Main water-supply zone from 302 ft to 312 ft below GL

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

STAINLESS CENTRALIZERS EVERY 10 FEET

Well Development

☑ Physical explain: AIRLIFTED, DEVELOPED & PUMPED

☑ Chemical explain: AQUACLEAR 2 GAL

Well Use

☐ Domestic ☑ Public supply ☐ Livestock

☐ Heat pump ☐ Commercial ☐ Irrigation

# of borehole(s) ____ ☐ Monitoring ☐ Other _____

Contractor

Company MIDDENDORFF WELL COMPANY

Address SIOUX RAPIDS, IOWA 50585

Driller MIKE STRAND Certification no. 5350

IGS IIHR Hydroscience & Engineering

Mail form to **Iowa Geological Survey**: 100 Oakdale IGS, Iowa City, IA 52242-1304

Or click here to e-mail form to: IIHR-IGS-WellRecords@uiowa.edu

Make copies for well contractor, customer, and county health department

The University of Iowa

WELL RECORD FORM

PWTS No. *or* PWS No. _____ PWTS Permit No. _____ GEOSAM Well No. *(IGS use only)* 94230

Site Identification

Property owner CITY OF VARINA (PG 2) Other ID _____

Address MAIN ST City VARINA

Tenant CITY WELL #5

Well depth 312.5 ft Date completed 7 / 3 / 2019

Location

County POCAHONTAS

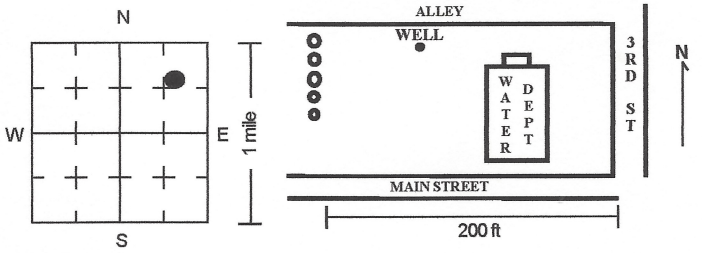
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☑ Gravel packed variety 2040 UNIUM	287	312	220 LBS
☐ Seals/packers			

Formation Log

From	To	Color	Hardness	Formation description
311	312			SAND
312	314	BLUE		SHALE
314		GRAY		LIMESTONE
				(use additional sheets as needed)

Pump Installation

Date ___/___/___

Type of pump _____ Depth to intake _____ ft

Pump diameter _____ in Rated capacity _____ GPM

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Contractor

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Driller MIKE STRAND Certification no. 5350

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