WELL RECORD 80517

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 Carroll Other ID Well #19

Address 112 E 5th St., Carroll, IA 51401

Tenant _____

Well Depth 236 ft Date completed 08 / 10 / 15

Location

County Carroll

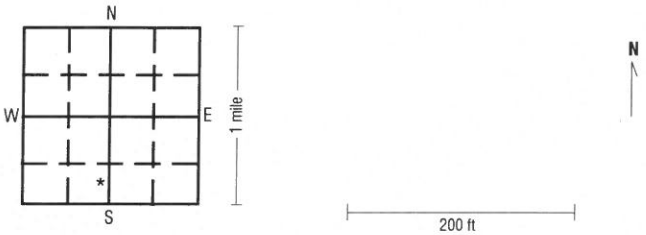
_____ mi. N/S and _____ mi. E/W of intersection of _____ and _____

_____ 1/4 of the SE 1/4 of the SW 1/4 of Sec 23 TWP 84 RNG 35 E/W

GPS Coordinates (NAD83 datum only) decimal degrees:

42 . 064694 N. Latitude 94 . 889972 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	14	brown	loose	Top soil and clay
14	20	blue	loose	Clay
20	80	blue	hard	Clay with hard ledges & cobbles
80	90	blue	hard	Clay with ledges
90	95	gray	dense	Clay
95	100	tan	dense	Clay
100	106	gray	dense	Clay
106	120	tan	dense	Light tan shale
120	130	gray/yellow	hard	Light gray & yellow shale
130	132	brown	hard	Medium to coarse sandstone
132	140	tan/yellow	hard	Light tan & yellow shale
140	173	yellow/gray	hard	Yellow & gray shale
173	180	brown	hard	Shale w/ thin sandstone streaks
180	185	brown	hard	Shale w/ sandstone streaks
				use additional sheets as needed

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

Well use

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

Drill method

☒ rotary ☐ auger ☐ cable other _____

Hole size

22 inch from 0 ft to 236 ft

36 inch from 0 ft to 180 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	.500 wall steel	0	180	180
14	.375 wall steel	0	185	185
14	Stainless steel	232	236	4

Perforated or slotted casing? (yes / ~~no~~)

Perforated / slotted from 185 ft to 232 ft

Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes / ~~no~~) Placement method _____

Type	Depth top	Depth bottom	Amount (vol/wt)
Neat cement grout	0	20	20 yards
Bentonite	20	181	6 super sacks

Well screen? (yes / no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
14	0.020	185	232	47	Stainless Steel
	0.___				

Bottom capped (yes / ~~no~~) with stainless steel

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

Gravel packed (yes / ~~no~~) from 181 ft to 236 ft

type #20 amount 4 super sacks

Well developed? (yes / ~~no~~)

Explain Double disc surge block

(pumped, airlifted, bailed) for 16 hrs at 250 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 185 ft to 232 ft ☐ seepage well

Static water level 84.6 ft (below / above) GL; ☒ tape ☐ airline ☐ E-line ☐ estimate

Pumping water level 159.5 ft below GL; ☒ tape ☐ airline ☐ E-line ☐ estimate

At yield of 300 GPM; ☒ orifice ☐ volumetric ☐ estimate for _____ hours

Measurements taken at _____ : _____ (AM / PM) Date 08 / 31 / 15

Water quality test? (yes / ~~no~~)

Date tested 9 / 1 / 2015

Tested by State Hygienic Laboratory

Contractor Sargent Drilling

Address 2016 Industrial Park Road, Carroll, IA 51401

Driller Derek Schweitzer Certification no. 8338

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

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

WELL RECORD

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Location

County _____

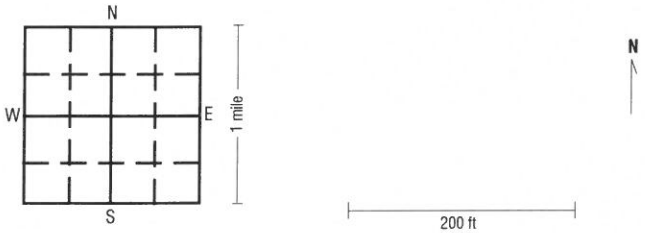
____ mi. N / S and ____ mi. E / W of intersection of _____ and _____

____ 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
185	200	brown	hard	Fine to medium sandstone w/
				shale streaks
200	220	brown	hard	Fine to medium sandstone w/
				thin shale streaks
220	232	brown	hard	Fine to medium sandstone w/
				trace of fine gravel
232	260	brown	hard	Shale

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 _____

Hole size

____ inch from 0 ft to ____ ft

____ inch from ____ ft to ____ 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)

Perforated or slotted casing? (yes / no)

Perforated / slotted from _____ ft to _____ ft

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
	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 _____

(pumped, airlifted, 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. _____

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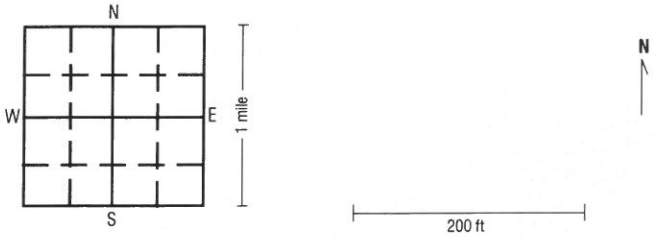
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_____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RNG _____ E/W

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Formation log

From	To	Color	Hardness	Formation description

use additional sheets as needed

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

Well use

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

Drill method ☐ rotary ☐ auger ☐ cable other _____

Hole size

_____ inch from 0 ft to _____ ft

_____ inch from _____ ft to _____ 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)

Perforated or slotted casing? (yes / no)

Perforated / slotted from _____ ft to _____ ft

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
	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 _____

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

Pump installed? (yes / ~~no~~) Date 10 / 03 / 2015

Installer's name Kenneth Mohr

Type of pump Goulds Depth to intake 180 ft

Pump diameter 6" Rated capacity 300 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 Sargent Drilling

Address PO Box 634, 2016 Industrial Park Road, Carroll, IA 51401

Driller Derek Schweitzer Certification no. 8338

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