96216

WELL RECORD FORM

PWSID# or PWTS No. _____ PWTS Permit No. _____ GeoSam WNumber (IGS use only) _____

Site Identification

Property owner Cherokee Rural Water Other ID MC 3R

Address PO Box 1022 City Cherokee

Tenant _____

Well depth 395 ft Date completed 11 / 16 / 2021

Location

County Cherokee

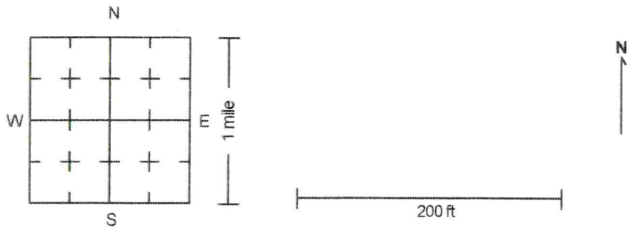
GPS coordinates (NAD83 datum)

42.8233060 Latitude 96.7455280 Longitude

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

____ 1/4 of the ____ 1/4 of the SE 1/4 of Sec 36 TWP 93 RNG 42 E W

Show exact location of well in section grid with a dot (•). Sketch map of well location on property.



Formation Log

From	To	Color	Hardness	Formation description
0	20	Brown	Loose	Top soil and clay
20	40	Brown	Hard	Clay with rocks
40	60	Brown	Hard	Clay with gray clay rocks and
				white clay layer
60	80	Brown	Hard	Clay
80	100	Brown	Hard	Clay
100	120	Multi	Hard	Brown and gray clay
120	140	Multi	Hard	Brown and gray clay with rocks
				and sand and gravel layer
140	160	Brown	Hard	Clay with rocks
160	180	Multi	Hard	Brown and gray clay with rocks
180	202	Gray	Hard	Clay with rocks
202	244	Gray	Hard	Shale with rocks
244	247	Gray	Very Hard	Shale
247	280	Gray	Hard	Shale with rocks
280	300	Gray	Hard	Shale with rocks and sand and
				gravel layer

(use additional sheets as needed)

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

Well Use

☐ Domestic ☑ Public supply ☐ Livestock

☐ Heat pump ☐ Commercial ☐ Irrigation

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

Drill Method

☑ Rotary ☐ Auger ☐ Cable ☐ Other _____

Hole size

22 inch from 0 ft to 395 ft

____ inch from ____ ft to ____ ft

hole size continued

____ inch from ____ ft to ____ ft

____ inch from ____ ft to ____ ft

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
14	Shur-Grip	0	340	☐	☐	☐ slot size _____
14	Stainless Steel	340	395	☐	☑	☐ slot size .030
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
☑ Gravel packed		325	395	amount 17.50 yds		variety Chlorinate
☐ Seals/packers				type _____		

☐ Bottom capped with Chlorinate

Casing Grout

Placement method _____

Type	Depth Top	Depth Bottom	Amount (vol/wt)
Concrete	0	30	
Bentonite Seal	30	325	

Pump Installation

Date ____/____/____

Type of pump _____ Depth to intake _____ ft

Pump diameter _____ in Rated capacity _____ GPM

Water Information

Date ____/____/____

Static Water Level	Pumping Water Level	Yield	Duration
249 ft	290 ft	900 GPM	5.00 hrs

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

Water yield measurement: ☐ Orifice ☐ Volumetric ☐ Estimate

Main water-supply zone from _____ ft to _____ ft below GL

Well Development

☑ Physical explain: Double disk surge block & piping

☐ Chemical explain: _____

Contractor

Company Sargent Drilling

Address 2016 Industrial Park Road, Carroll, IA 51401

Driller Derek Schweitzer Certification no. 8338

IGS IIHR Hydroscience & Engineering The University of Iowa

Mail form to **Iowa Department of Natural Resources**: 502 E. 9th St., Des Moines, IA 50319-0034

Or click here to e-mail form to: well.records@dnr.iowa.gov

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

DNR

Rev. 2017 DNR Form 542-8170

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WELL RECORD FORM

PWSID# *or* PWTS No. _____ PWTS Permit No. _____ GeoSam WNumber *(IGS use only)* _____

Site Identification

Property owner Cherokee Rural Water Other ID MC 3R

Address PO Box 1022 City Cherokee

Tenant _____

Well depth 395 ft Date completed 11 / 16 / 2021

Location

County Cherokee

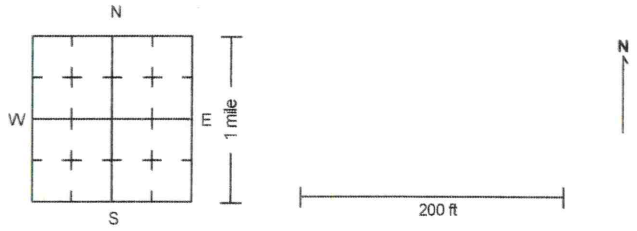
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Show exact location of well in section grid with a dot (•). Sketch map of well location on property.



Formation Log

From	To	Color	Hardness	Formation description
300	336	Gray	Hard	Shale with rocks
336	340	Gray	Hard	Fine medium coarse sand and
				fine med coarse gravel and rocks
340	397	Gray	Hard	Rocks and fine medium coarse
				gravel and fine med coarse sand
397	400	Gray	Hard	Shale
				(use additional sheets as needed)

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

Well Use

☐ Domestic ☑ Public supply ☐ Livestock

☐ Heat pump ☐ Commercial ☐ Irrigation

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

Drill Method

☑ Rotary ☐ Auger ☐ Cable ☐ Other _____

Hole size

22 inch from 0 ft to 395 ft

____ inch from ____ ft to ____ ft

hole size continued

____ inch from ____ ft to ____ ft

____ inch from ____ ft to ____ ft

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
14	Shur-Grip	0	340	☐	☐	☐ slot size _____
14	Stainless Steel	340	395	☐	☑	☐ slot size .030
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
☑ Gravel packed		325	395	amount 17.50 yds variety Chlorinate		
☐ Seals/packers				type _____		

☐ Bottom capped with Chlorinate

Casing Grout

Placement method _____

Type	Depth Top	Depth Bottom	Amount (vol/wt)
Concrete	0	30	
Bentonite Seal	30	325	

Pump Installation

Date ____ / ____ / ____

Type of pump _____ Depth to intake _____ ft

Pump diameter _____ in Rated capacity _____ GPM

Water Information

Date ____ / ____ / ____

Static Water Level	Pumping Water Level	Yield	Duration
249 ft	290 ft	900 GPM	5.00 hrs

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

Water yield measurement: ☐ Orifice ☐ Volumetric ☐ Estimate

Main water-supply zone from _____ ft to _____ ft below GL

Well Development

☑ Physical explain: _____

☐ Chemical explain: _____

Contractor

Company Sargent Drilling

Address 2016 Industrial Park Road, Carroll, IA 51401

Driller Derek Schweitzer Certification no. 8338

IGS IIHR Hydroscience & Engineering The University of Iowa

Mail form to **Iowa Department of Natural Resources**: 502 E. 9th St., Des Moines, IA 50319-0034

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Tenant _____

Well depth _____ ft | Date completed 11 / 8 / 21

Location

County Cherokee

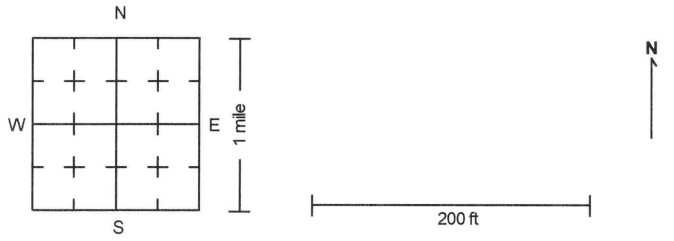
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☐ Domestic ☑ Public supply ☐ Livestock

☐ Heat pump ☐ Commercial ☐ Irrigation

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

Drill Method

☐ Rotary ☐ Auger ☐ Cable ☐ Other _____

Hole size

36 inch from 0 ft to 335 ft

____ inch from ____ ft to ____ ft

____ inch from ____ ft to ____ ft

hole size continued

____ inch from ____ ft to ____ ft

____ inch from ____ ft to ____ ft

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
24	.375 Carbon Steel	0	335	☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
☐ Gravel packed				amount _____ variety _____		
☐ Seals/packers				type _____		

☐ Bottom capped with _____

Casing Grout

Placement method _____

Type	Depth Top	Depth Bottom	Amount (vol/wt)
Concrete	0	280	40 yds
Bentonite Steal	280	335	6 SS

Pump Installation

Date ____/____/____

Type of pump _____ Depth to intake _____ ft

Pump diameter _____ in Rated capacity _____ GPM

Water Information

Date ____/____/____

Static Water Level	Pumping Water Level	Yield	Duration
____ ft	____ ft	____ GPM	____ hrs

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

Water yield measurement: ☐ Orifice ☐ Volumetric ☐ Estimate

Main water-supply zone from _____ ft to _____ ft below GL

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