96215

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 1R

Address PO Box 1022 City Cherokee

Tenant _____

Well depth 375 ft Date completed 11 / 4 / 2021

Location

County Cherokee

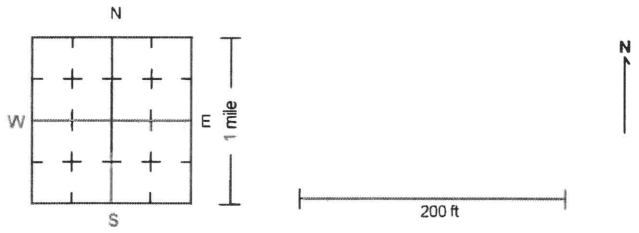
GPS coordinates (NAD83 datum)

42.8167330 Latitude 95.7481940 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 brown clay
20	40	Brown	Dense	Clay with rocks
40	60	Brown	Dense	Clay with gray clay rocks
60	80	Multi	Dense	Brown and gray clay with rocks
80	100	Brown	Dense	Clay
100	120	Multi	Dense	Brown and gray clay
120	121	Brown	Dense	Clay
121	124	Red	Very Hard	Rocks
124	140	Brown	Dense	Clay
140	144	Brown	Dense	Clay with sand and gravel layer
144	160	Gray	Dense	Clay with sand and gravel layers
				and rocks
160	180	Gray	Dense	Clay
180	200	Gray	Dense	Clay with rocks
200	260	Gray	Hard	Shale with rocks
260	280	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 375 ft

____ inch from ____ ft to ____ ft

____ inch from ____ ft to ____ ft

hole size continued

____ inch from ____ ft to ____ ft

____ 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	375	☐	☑	☐ slot size .090
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
☑ Gravel packed		325	375	amount 12 50 yds		variety #3
☐ Seals/packers				type _____		

☐ Bottom capped with #3

Casing Grout

Placement method _____

Type	Depth Top	Depth Bottom	Amount (vol/wt)
Concrete	0	30	3 yds
Bentonite Seal	30	325	14 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
242 ft	1000 ft	260 GPM	3.00 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

96215

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 1R

Address PO Box 1022 | City Cherokee

Tenant _____

Well depth 375 ft | Date completed 11 / 4 / 2021

Location

County Cherokee

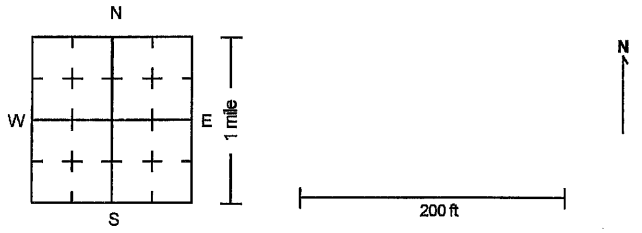
GPS coordinates (NAD83 datum)

42.8167330 Latitude | 95.7481940 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
280	295	Gray	Hard	Shale with rocks
295	296		Very Hard	Rock
296	300	Gray	Hard	Shale
300	320	Gray	Hard	Shale
320	325		Hard	Shale
325	326		Hard	Rock
326	329		Hard	Shale
329	335		Hard	Sandy shale and rocks
335	360	Tan	Hard	Rocks and fine medium coarse
				gravel and sand
360	389	Tan	Hard	Rocks and fine medium coarse
				gravel and fine medium coarse
				sand
389	400		Hard	Shale and rock
				(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

____ inch from 0 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
				☐	☐	☐ 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)

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

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

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 The University of Iowa

DNR Form 542-8170