96066

WELL RECORD FORM

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

Site Identification

Property owner Cherokee Rural Water Other ID _____

Address PO Box 1022 City Cherokee

Tenant _____

Well depth 251 ft Date completed 7 / 20 / 2021

Location

County Cherokee

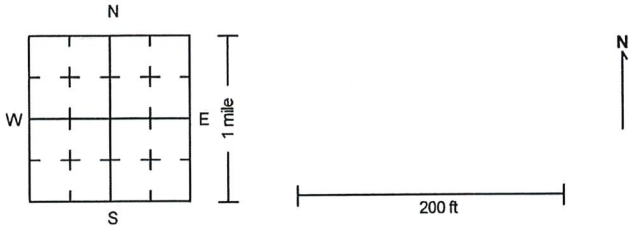
GPS coordinates (NAD83 datum)

42.6750560 Latitude -95.5677250 Longitude

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

____ 1/4 of the ____ 1/4 of the NE 1/4 of Sec 28 TWP 91 RNG 40 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	3			Till
3	8			Till and clay layers with rocks
8	20	Blue		Clay
20	40	Blue		Clay and till
40	41	Blue		Clay
41	43			Hard, hard
43	96	Blue		Clay and till
96	108	Blue		Clay with trace of fine sand
108	120	Blue		Clay with fine sand layers
120	140	Blue		Clay with fine to med sand layers
140	160	Blue		Clay with fine Dakota ss layers
160	161	Blue		Clay
161	190			Med to coarse Dakota ss
190	203			Fine to med Dakota ss w/ cly lyrs
203	220			Med to coarse Dakota ss with
				clay streaks
				(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

30 inch from 0 ft to 251 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
16	SDR 17	0	176	☐	☐	☐ slot size _____
16	Stainless Steel	176	251	☐	☑	☐ slot size .030
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
☑ Gravel packed		125	251	amount 31.5 yds variety Stainless		
☐ Seals/packers				type _____		

☐ Bottom capped with Stainless Steel plate bottom

Casing Grout

Placement method _____

Type	Depth Top	Depth Bottom	Amount (vol/wt)
Concrete grout	0	60	13 yds
Bentonite seal	60	125	10 bags

Pump Installation

Date 8 / 26 / 2021

Type of pump Line shaft turbine Depth to intake 160 ft

Pump diameter 8 in Rated capacity 500 GPM

Water Information

Date ____ / ____ / ____

Static Water Level	Pumping Water Level	Yield	Duration
54 ft	105 ft	500 GPM	24.00 hrs

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

Water yield measurement: ☑ Orifice ☐ Volumetric ☐ Estimate

Main water-supply zone from 160 ft to 250 ft below GL

Well Development

☑ Physical explain: Double disk surge block

☐ 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

DNR Form 542-8170

Rev. 2017

96066

WELL RECORD FORM

PWSID# *or* PWTS No. 1811001 | PWTS Permit No. _____ | GeoSam WNumber *(IGS use only)* _____

Site Identification

Property owner Cherokee Rural Water | Other ID C-3R

Address PO Box 1022 | City Cherokee

Tenant _____

Well depth 251 ft | Date completed 7 / 20 / 2021

Location

County Cherokee

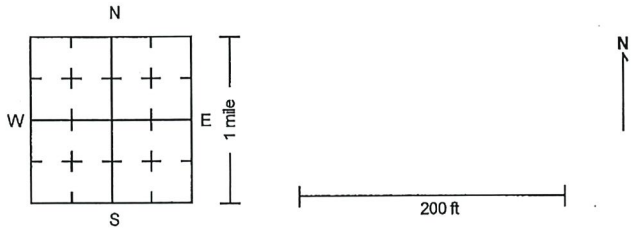
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☐ Decimal Degrees ☐ Degrees, Decimal Minutes ☐ Degrees, Minutes, Seconds

____ 1/4 of the ____ 1/4 of the NE 1/4 of Sec 28 TWP 91 RNG 40 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
220	226			Med to coarse Dakota ss
226	229		Hard	Coarse sand
229	240			Med to coarse Dakota ss
240	242			Hard
242	250			Med to coarse Dakota ss
250	260		Hard	Pyrite and limestone
				(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

30 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 | 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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Sargent Drilling

INDUSTRIAL ENGINEERING
COMPLETE MUNICIPAL AND INDUSTRIAL
WELL AND PUMP SERVICE

PO Box 367
846 South 13th St.
Geneva, NE 68361-0367

Phone: (402) 759-3902
Toll Free: (888) 496-3902
Fax: (402) 759-4960

Driller's Log

Customer:	Cherokee RWD	**Legal:**	NE 1/4, 28-T91N-R40W, Cherokee Co., IA
Date Construction Started:	7/20/2021	**GPS Reading:**	42° 40' 30.20" 95° 34' 3.81"
Well Depth:	251'	**Bore Hole:**	30"
Type of Plain Casing:	SDR 17"	**Casing Dia.:**	16"
From: 0'	**To** 176'		
Type of Perf. Casing:	Johnson Stainless Steel	**Casing Dia.:**	16"
Slot size:	.030" **From:** 176'	**To**	251'
Sump From:	**To:**	**Type of Bottom:**	Stainless Steel
Gravel From:	Northern	**Grade Size:**	#0
Yards of Gravel:	9 Bags	**Bags of Chunks:**	10 Bags
Bags of Powder:	1 Pallet	**Yards of Concrete:**	13 Yards
Stabilizers:	12	**Well Development Time:**	2 Hours
Test Pump Results:		**SWL:**	
GPM from			
GPM from			
GPM from			
GPM from			

