WELL RECORD FORM

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

Site Identification

Property owner LYON SIOUX RWS-BIG SIOUX Other ID _____

Address 1107 1ST AVE City ROCK RAPIDS

Tenant _____

Well depth 591 ft Date completed 8 / 26 / 2021

Location

County LYON

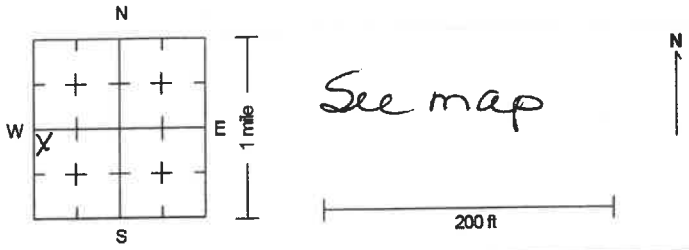
GPS coordinates (NAD83 datum)

43.3970920 Latitude -96.5203420 Longitude

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

NW 1/4 of the NW 1/4 of the SW 1/4 of Sec 16 TWP 99 RNG 48 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
				SEE ATTACHED LOG
				(use additional sheets as needed)

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

ASHLEY AVE, CENTENNIAL TOWNSHIP

Well Use

☐ Domestic ☑ Public supply ☐ Livestock

☐ Heat pump ☐ Commercial ☐ Irrigation

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

Drill Method

☑ Rotary ☐ Auger ☐ Cable ☐ Other _____

Hole size

18 inch from 0 ft to 599 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
12	STEEL	0	490	☐	☐	☐ slot size _____
6	S.S. SCREEN	490	591	☐	☐	☑ slot size .020
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____

Casing Grout

Placement method tremie pipe

Type	Depth Top	Depth Bottom	Amount (vol/wt)
NEAT CEMENT	0	490	14 YDS
☑ Gravel packed variety #30	490	591	1.5 CU YDS
☑ Seals/packers			40' leader

Pump Installation

Date ____ / ____ / _____

Type of pump _____ Depth to intake _____ ft

Pump diameter _____ in Rated capacity _____ GPM

Water Information

Date 08 / 26 / 2021

Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
106 ft	290 ft	315 GPM	48.00 hrs

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

Water yield measurement: ☐ Orifice ☐ Volumetric ☐ Estimate

Main water-supply zone from 490 ft to 591 ft below GL

Well Development

☑ Physical explain: AIRLIFTED/JETTED

☐ Chemical explain: _____

Contractor

Company THEIN WELL COMPANY INC.

Address PO BOX 778, SPICER MN 56288

Driller BRIAN PINKELMAN Certification no. 11010

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

The University of Iowa

12" Well – 8/26/21 - Lyon Sioux Rural Water - Klondike Well – Formation Log

Formation Log	*From*	*To*
Top soil	0	1.5
Clay brown	1.5	6
Gravel w/clay layers	6	9
Brown silty sand	9	24
Clay grey – soft and sandy	24	34
Clay blue – soft and sandy	34	54
Clay grey – soft w/some sandy blue clay layers	54	73
Clay grey – soft, sandy, silty	73	89
Sand	89	103
Gravel w/clay layers	103	117
Clay grey – soft and sandy	117	124
Clay/shale blue	124	138
Shale blue soft	138	143
Shale black/blue w/sandstone layer @ 157'	143	201
Shale black hard w/ a few thin sandstone layers	201	205
Shale soft w/thin sandstone layers	205	215
Shale black firm	215	284
Shale hard dry/mudstone w/thin sandstone layers	284	305
Shale black hard/greenhorn limestone	305	324
Shale grey soft	324	332
Sandstone & sand	332	365
Sand & sandstone w/clay layers	365	379
Clay/shale grey/brown	379	387
Shale w/sandstone layers	387	402
Shale black w/grey layers	402	419
Sandstone very hard	419	423
Shale grey soft w/thin sandstone layers	423	437
Shale black	437	448
Sandstone	448	449
Shale	449	456
Sand and sandstone	456	463
Shale grey w/soft black coal/a few sand layers	463	485
Sand and sandstone	485	487
Shale	487	488
Sand and sandstone pink w/a few thin shale layers	488	516
Shale	516	517
Sand and sandstone pink w/thin shale layer @ 523'	517	525
Sand pink somewhat harder	525	536
Sandstone pink	536	538
Sand and sandstone	538	542
Sandstone some hard layers	542	547
Sand w/sandstone layer/layers of soft white shale	547	552
Sandstone pink w/sand layers	552	568
Sandstone hard pink/white	568	591
Sandstone hard w/very hard layers	591	599
Quartzite	599	


Lyon Sioux Rural Water
12" Well
Ashley Ave
Larchwood, IA
Legend
Feature 1
Ashley Ave
N43 23' 49.5" W96 31' 13.2"
Big Sioux River
Ashley Ave
Google Earth
N
1000 ft