WELL RECORD FORM

GEOSAM Well No. (IGS use only): _____

PWTS No. *or* PWS No.: _____ PWTS Permit No.: 2022-0535W

Site Identification

Property Owner: LYON -SIOUX RWS Other ID: _____

Address: 1107 1ST AVE , BOX 309 City: ROCK RAPIDS

Tenant: _____

Well Depth: 511 ft Date Completed: 6/14/2024

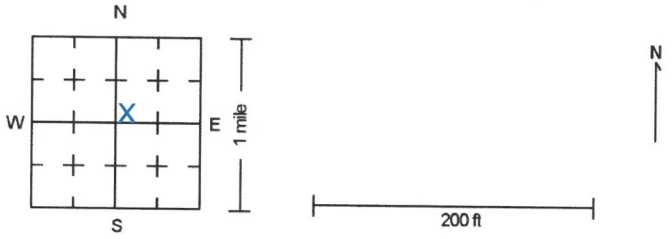
Location

GPS coordinates (NAD83 datum) ☒ Decimal Degrees ☐ Degrees, Decimal Minutes ☐ Degrees, Minutes, Seconds

43.3394000 Latitude -95.9862830 Longitude

SW ¼ of the SW ¼ of the NE ¼ of Sec 1 TWP 98 Rng 44 ☐ E ☒ W

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



Formation Log (use additional sheets as needed)

From	To	Color	Hardness	Formation Description
				SEE ATTACHED LOG

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

Pursuant to 567 IAC 82.12, well record submittal is a requirement for all wells drilled in Iowa. Well logs can be submitted to the State via the following methods:

1. **Public Water Supply wells,** Email to: well.records@dnr.iowa.gov or, Submit a paper copy mailed to: Well Records, 502 E 9th St, Des Moines IA 50319-0034
2. For all remaining wells, Submit using one of the following options:
   a. Submit electronically through the Private Well Tracking System (PWTS) database, or
   b. Submit a paper copy to the respective count sanitarian (permitting authority)

Casing, Screen and/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 CASING	0	346	☐	☐	☐ Slot Size:
6	STAINLESS STEEL SCREEN	346	351	☐	☐	☒ Slot Size: .010
6	STAINLESS STEEL SCREN	351	511	☐	☐	☒ Slot Size: .020
				☐	☐	☐ Slot Size:

☒ Gravel packed — 331 — 511 — Amount: 59 QFT — Variety: #30 RED FLINT

☒ Seals/packers — 311 — 346 — Type: STAINLESS STEEL LEADER

☒ Bottom Capped with: STEEL PLATE

Casing Grout Placement method: TREMIE LINE

Type	Depth Top	Depth Bottom	Amount (vol/wt)
PORTLAND CEMENT	0	346	8 YARDS

Well Use ☐ Commercial ☐ Domestic ☐ Irrigation ☐ Heat Pump (# of boreholes:) ☐ Livestock ☐ Monitoring ☐ Public Supply ☒ Other: RURAL WATER DISTRICT

Drill Method ☒ Rotary ☐ Auger ☐ Cable ☐ Other:

Hole Size 18 inch from 0 ft to 346 ft

10 inch from 346 ft to 511 ft

___ inch from ___ ft to ___ ft

___ inch from ___ ft to ___ ft

Pump Installation Date: 6/14/2024 Depth to intake: 285 ft

Type of pump: SUBMERSIBLE

Pump diameter: 8 in Rated capacity: 385 GPM Final Yield: 400 GPM

Well Development and Water Information Date: 12/19/2023

Static Water Level 198 ft Yield 400 GPM

Pumping Water Level 255 ft Duration 32 hrs

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

Water yield measurement: ☐ Orifice ☒ Volumetric ☐ Estimate

Main water-supply zone from 312 ft to 511 ft below GL

Well Development Explain: BLOW , JET , PUMP

Well Disinfection

System Water Volume: ___ gal/ft^3 Chemical: CALCIUM HYPOCLORIDE

Chemical Concentration: 65% mg/L Contact Time: 72 HRS

Certified Well Driller

Company: THEIN WELL COMPANY, INC

Name: BRIAN PINKELMAN Certification No. 11010

Certified Pump Installer

Company: THEIN WELL COMPANY, INC

Name: ANTHONY THEIN Certification No. 12291

Lyon Sioux Rural Water Systems 12 " well 511' depth

GPS N 43.3394000 W -95.9862830

Formation Log	*From*	*To*
Top soil	0	3
Clay brown	3	9
Gravel coarse	9	18
Sand and gravel	18	33
Gravel	33	38
Clay brown	38	40
Clay gray	40	42
Clay brown tan	42	49
Pebbly and rocky clay brown	49	72
Clay gray	72	106
Sand and gravel	106	117
Sand	117	122
Clay blue	122	137
Gravel- fine	137	139
Clay- gray	139	149
Clay brown/ gray	149	167
Shale	167	237
Shale – black	237	256
Sandstone – hard	256	257
Shale w/sandstone layers – black	257	272
Sand & sandstone	272	282
Shale w/sandstone layers	282	291
Shale w/few sandstone layers – black	291	298
Shale – black	298	304
Shale w/sandstone layers	304	312
Sandstone w/few shale layers	312	318
Sandstone w/shale layers 50/50	318	326
Sandstone w/few thin shale layers	326	330
Shale w/sandstone layers	330	337
Sand & sandstone	337	342
Shale & sandstone layers	342	346
Sandstone w/few shale layers	346	362
Shale	362	366
Sandstone	366	449
Shale	449	453
Sandstone w/few shale layers	453	459
Shale	459	461
Sandstone w/thin shale layers	461	464
Sandstone & shale very layered	464	475
Shale	475	482
Sandstone	482	511
Shale – black	511	518


Lion & Sioux RWS George Well # 6
Legend
N 43.3394000 W 95.9862830 Lyon & Sioux RWS 12" Well 511 ' Depth June 2024
215th St
Kingbird Ave
Google Earth
N
1000 ft