101492

WELL RECORD FORM

GEOSAM Well No. (IGS use only): _____

PWTS No. *or* PWS No.: IA7227701 PWTS Permit No.: 2022-0309W

Site Identification

Property Owner: Osceola County Rural Water System Other ID: Ten Kley Well T-3

Address: 2270 Walnut Avenue City: May City

Tenant: Osceola County Rural Water System

Well Depth: 57 ft Date Completed: 03/19/2024

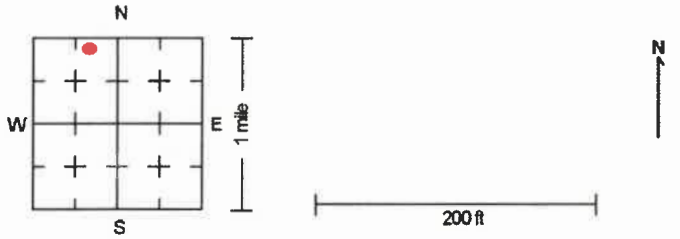
Location

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

43.312547 Latitude -95.460820 Longitude

NW ¼ of the NE ¼ of the NW ¼ of Sec 16 TWP 98 Rng 39 ☐ 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
0	1	Brown		Topsoil
1	4	Brown		Clay
4	16	Brown		Coarse to medium sand w/fines
16	21	Gray		Coarse to medium sand w/fines
21	34	Gray		Coarse to medium sand w/fines and gravel
34	45	Gray		Coarse to medium sand w/fines
45	57	Gray		Coarse to medium sand w/fines, gravel, cobbles & boulders

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)

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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
16	Steel	7	42	☐	☐	☐ Slot Size:
16	Stainless-Steel	42	57	☐	☒	☐ Slot Size: 0.080"
				☐	☐	☐ Slot Size:
				☐	☐	☐ Slot Size:

☒ Gravel packed — 38 — 57 — Amount: 2 Tons — Variety: 3/16" x #10

☒ Seals/packers — 36 — 38 — Type: Bentonite

☒ Bottom Capped with: Stainless-steel plate factory welded to bottom of screen.

Casing Grout — Placement method: Tremie

Type	Depth Top	Depth Bottom	Amount (vol/wt)
Neat Cement Grout	7	36	2 cyd

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

Drill Method ☒ Rotary ☐ Auger ☐ Cable ☐ Other:

Hole Size 24 inch from 0 ft to 57 ft

inch from ft to ft

inch from ft to ft

inch from ft to ft

Pump Installation Date: 03/19/2024 Depth to intake: 45 ft

Type of pump: Submersible

Pump diameter: 8 in Rated capacity: 672 GPM Final Yield: GPM

Well Development and Water Information Date: 10/12/2023

Static Water Level 11.6 ft Yield 923 GPM

Pumping Water Level 29.3 ft Duration 70.5 hrs

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

Water yield measurement: ☒ Orifice ☐ Volumetric ☐ Estimate

Main water-supply zone from 42 ft to 57 ft below GL

Well Development Explain: Developed using a combination of swabbing, bailing and surge pumping

Well Disinfection

System Water Volume: 670 gals. total gal/ft³ Chemical: Sodium Hypochlorite

Chemical Concentration: 200 mg/L Contact Time: >24 hours

Certified Well Driller

Company: Layne Christensen Company

Name: Mark Leslie Certification No. 3684

Certified Pump Installer

Company: Layne Christensen Company

Name: Joe Dooling Certification No. 7501