102100

WELL RECORD FORM

GEOSAM Well No. (IGS use only): _____

PWTS No. *or* PWS No.: 2346047 PWTS Permit No.: 2024-0077W

Site Identification

Property Owner: City of Lost Nation Other ID: 3

Address: 401 Western Street City: Lost Nation

Tenant: City of Lost Nation

Well Depth: 186 ft Date Completed: 8-31-2023

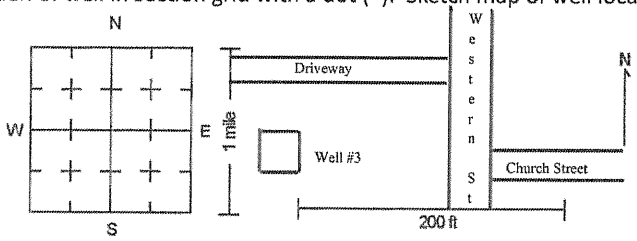
Location

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

41.963128 Latitude -90.821518 Longitude

SE ¼ of the SE ¼ of the NE ¼ of Sec 27 TWP 83 Rng 01 ■ 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	4		Soft	Topsoil
4	33	Gray	Firm	Clay
33	40	Blue	Firm	Clay
40	48	Red	Firm	Sand Clay
48	70	White	Hard	Limestone
70	103	Brown	Hard	Limestone makes water
103	116	Brown	Soft	Limestone
116	129	Gray	Medium	Limestone
129	140	Light Gray/White	Medium	Limestone
140	155	Gray	Medium	Limestone
155	170	Light Gray	Hard	
170	181	Gray	Medium	Limestone
181	186	Gray	Medium	Shale Gray

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
8.625	.322 W/28.58 # pf	+3	142	☐	☐	☐ 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)
Pressure Grouted	7'	140'	115 bags

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

Drill Method ☐ Rotary ☐ Auger ☐ Cable ☐ Other: _____

Hole Size 14 inch from 0 ft to 140 ft
7 7/8 inch from 140 ft to 186 ft
_____ inch from _____ ft to _____ ft
_____ inch from _____ ft to _____ ft

Pump Installation Date: 2-12-2024 Depth to intake: 174 ft

Type of pump: Submersible

Pump diameter: 6" in Rated capacity: 125 GPM Final Yield: 125 GPM

Well Development and Water Information Date: 1-6-2024

Static Water Level 49 ft Yield 152 GPM

Pumping Water Level 103 ft Duration 24 hrs

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

Water yield measurement: ☐ Orifice ☐ Volumetric ☐ Estimate ☒ Meter

Main water-supply zone from 140 ft to 180 ft below GL

Well Development Explain: Pressure acidize 660 gallons of Hydrochlorie Acid

Well Disinfection

System Water Volume: _____ gal/ft³ Chemical: 1500 gallons of disinfection solution

Chemical Concentration: 650 mg/L Contact Time: 48 Hours

Certified Well Driller

Company: **Northway Well & Pump Company - 4895 8th ave - Marion, IA 52302**

Name: Paul Daehn Certification No. 7174

Certified Pump Installer

Company: **Northway Well & Pump Company - 4895 8th ave - Marion, IA 52302**

Name: Paul Daehn Certification No. 7174