

WELL RECORD FORM

94392

PWSID# or PWTS No. <u>IA7820080</u>	PWTS Permit No. <u>2020-0137W</u>	GeoSam WNumber (IGS use only) <u>WL-06</u>
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Site Identification

Property owner COUNCIL BLUFFS WATER WORKS Other ID _____

Address 6601 GIFFORD RD. City COUNCIL BLUFFS

Tenant WATER OPERATOR

Well depth 94'-6" ft Date completed 5 / 26 / 2020

Location

County POTTAWATTAMIE

GPS coordinates (NAD83 datum)
41.11.22 N Latitude 95.52.54 W Longitude
☒ Decimal Degrees ☐ Degrees, Decimal Minutes ☐ Degrees, Minutes, Seconds

NW 1/4 of the NE 1/4 of the SE 1/4 of Sec. S22 TWP T14N RNG R44 (W)

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

Drill Method

☐ Rotary
 ☐ Auger
 ☐ Cable
 ☒ Other REVERSE CIRCULATION

Hole size

36 inch from 0 ft to 94'-6" ft

_____ 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
<u>24"</u>	<u>STEEL</u>	<u>+2'-10"</u>	<u>68'-1"</u>	☐	☐	☐ slot size _____
<u>24"</u>	<u>STAINLESS STEEL</u>	<u>68'-1"</u>	<u>93'-10"</u>	☐	☐	☒ slot size <u>.060</u>
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____

☒ Gravel packed 35' 94'-6" amount 32 k variety 1/8" x 1/16 NG
☒ Seals/packers 20' 35' type HOLE PLUG/SLURRY
☒ Bottom capped with 1/2" SS PLATE ON SCREEN

Casing Grout

Placement method PRESSURE GROUTED

Type	Depth Top	Depth Bottom	Amount (vol/wt)
<u>NEAT CEMENT TYPE I-II</u>	<u>6.4'</u>	<u>20'</u>	<u>46 SACKS</u>
<u>2% CALCIUM CHLORIDE</u>			

Pump Installation - TEST

Date 5 / 20 / 2020

Type of pump AM. MARSH 10YC Depth to intake 72 ft

Pump diameter 10 in Rated capacity 2400 GPM

Water Information

Date 5 / 26 / 20

Static Water Level	Pumping Water Level	Yield	Duration
<u>9.5</u> ft	<u>32.1</u> ft	<u>1500</u> GPM	<u>24</u> hrs

Water level measurement: ☒ Sonic ☒ Tape ☐ Airline ☐ E-line ☐ Estimate
 Water yield measurement: ☒ Orifice ☐ Volumetric ☐ Estimate
 Main water-supply zone from 68'-1" ft to 93'-10" ft below GL

Well Development

☒ Physical explain: AIR SURGED THRU DOUBLE DISK SURGE BLOCK
☒ Chemical explain: 1500 PPM SODIUM HYPOCHLORIDE

Contractor

Company CAHOY PUMP SERVICE

Address 24568 150th ST. SUMNER, IA. 50674

Driller TONY THEIN Certification no. 8294

Formation Log

From	To	Color	Hardness	Formation description
<u>0'</u>	<u>31'</u>			<u>FINE SAND / CLAY</u>
<u>31'</u>	<u>34'</u>			<u>PETRIFIED WOOD / FINE SAND</u>
<u>34'</u>	<u>38'</u>			<u>FINE SILTY SAND / WOOD</u>
<u>38'</u>	<u>47'</u>			<u>MED. SAND / PETRIFIED WOOD / CLAY</u>
<u>47'</u>	<u>56'</u>			<u>PETRIFIED WOOD / MED. SAND</u>
<u>56'</u>	<u>60'</u>			<u>PETRIFIED WOOD / MED. SAND / CLAY</u>
<u>60'</u>	<u>71'</u>			<u>1/2" ROCK / MED. SAND</u>
<u>71'</u>	<u>73'</u>			<u>CHARCOAL</u>
<u>73'</u>	<u>81'</u>			<u>MED. SAND</u>
<u>81'</u>	<u>94'-6"</u>			<u>MED SAND MIX W/LARGER GRAVEL</u>
<u>94'-6"</u>	<u>FINISHED</u>			<u>LIMESTONE</u>

(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 _____