95353

# WELL RECORD FORM

PWSID# *or* PWTS No. _____ | PWTS Permit No. _____ | GeoSam WNumber *(IGS use only)* _____

## Site Identification

Property owner Southwest Regional Water | Other ID McCoppin3

Address PO Box 177 | City Clarinda

Tenant _____

Well depth 227 ft | Date completed 5 / 21 / 2020

## Location

County Montgomery

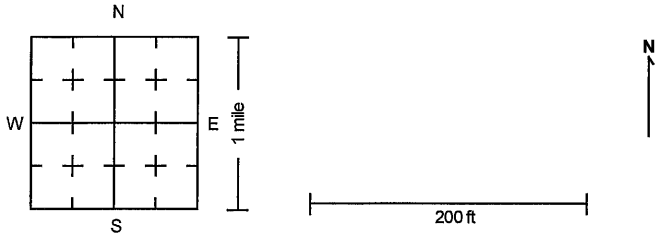
GPS coordinates (NAD83 datum)

41.0193060 Latitude | 95.1827780 Longitude

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

____ 1/4 of the ____ 1/4 of the SE 1/4 of Sec 23 TWP 72 RNG 38 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 |
|---|---|---|---|---|
| 0 | 1 | tan | loose | top soil |
| 1 | 21 | brown | dense | clay |
| 21 | 32 | gray | dense | clay |
| 32 | 41 | brown | dense | and yellow clay |
| 41 | 72 | tan | dense | clay |
| 72 | 77 | gray | dense | sticky clay |
| 77 | 83 | tan | dense | and yellow clay |
| 83 | 109 | yellow | loose | medium sand with clay |
| 109 | 121 | gray | dense | and tan clay |
| 121 | 139 | yellow | dense | and brown clay |
| 139 | 171 | yellow | loose | and gray fine sand |
| 171 | 173 | gray | dense | clay |
| 173 | 191 | gray | loose | fine sand |
| 191 | 227 | yellow | loose | fine to medium weathered |
| | | | | sandstone |
| 227 | 240 | yellow | hard | and blue clay and shale |
| | | | | (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 _____

## Drill Method

☑ Rotary ☐ Auger ☐ Cable ☐ Other _____

## Hole size

24 inch from 0 ft to 227 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 | ShurGrip (PVC) | 0 | 187 | ☐ | ☐ | ☐ slot size _____ |
| 12 | Stainless | 187 | 227 | ☐ | ☑ | ☑ slot size .040 |
| | | | | ☐ | ☐ | ☐ slot size _____ |
| | | | | ☐ | ☐ | ☐ slot size _____ |
| | | | | ☐ | ☐ | ☐ slot size _____ |
| ☑ Gravel packed | | 182 | 227 | amount 5 bags variety Sili Beads | | |
| ☐ Seals/packers | | | | type _____ | | |

☐ Bottom capped with Sili Beads

## Casing Grout

Placement method _____

| Type | Depth Top | Depth Bottom | Amount (vol/wt) |
|---|---|---|---|
| Cement Grout | 6 | 26 | |
| Bentonite Seal | 26 | 182 | |
| | | | |

## Pump Installation

Date 9 / 8 / 2020

Type of pump Goulds | Depth to intake 209 ft

Pump diameter 7 in | Rated capacity 500 GPM

## Water Information

Date 6 / 1 / 2020

| Static Water Level | Pumping Water Level | Yield | Duration |
|---|---|---|---|
| 139 ft | 167 ft | 500 GPM | 24.00 hrs |

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

Water yield measurement: ☑ Orifice ☐ Volumetric ☐ Estimate

Main water-supply zone from 187 ft to 227 ft below GL

## Well Development

☑ Physical explain: Surge blocked and pumped for 6 hours

☐ Chemical explain: _____

## Contractor

Company Sargent Drilling

Address 2016 Industrial Park Road, Carroll, IA 51401

Driller Derek Schweitzer | Certification no. 8338

IGS IIHR Hydroscience & Engineering — The University of Iowa

Mail form to **Iowa Department of Natural Resources**: 502 E. 9th St., Des Moines, IA 50319-0034

*Or click here to e-mail form to: well.records@dnr.iowa.gov*

Make copies for: **well contractor, customer, and county health department**

DNR

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