

077680

Corrected 2-21-13

Iowa Department of Natural Resources

## WELL RECORD FORM

Geological and Water Survey

PWTS No. or PWS No. \_\_\_\_\_ PWTS Permit No. \_\_\_\_\_

## Site Identification

Property owner Poweshiek Water Association Other ID VW13-12

Address 125 Industrial Drive City Brooklyn

Tenant \_\_\_\_\_

Well depth 27 ft Date completed 12 / 26 / 12

## Location

County Tama

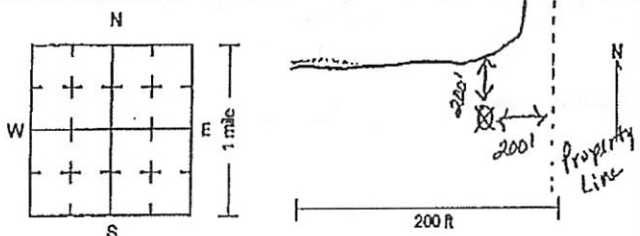
GPS coordinates (NAD83 datum)

41 56 28.1 Latitude 92 35 06.6 Longitude

☐ Decimal Degrees ☐ Degrees, Decimal Minutes ☒ Degrees, Minutes, Seconds

1/4 of the 1/4 of the 1/4 of Sec \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_ W \_\_\_\_\_ E \_\_\_\_\_

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    | 4  | Black | S        | Top Soil              |
| 4    | 8  |       | S        | Clay                  |
| 8    | 10 |       | S        | Sandy Clay            |
| 10   | 18 | Grey  | S        | Fine Sand             |
| 18   | 22 | Grey  | S        | Med Sand              |
| 22   | 27 |       |          | Coarse Sand / Rocks   |

Drill Method ☐ Rotary ☐ Auger ☐ Cable ☒ Other Dual Rotor

## Hole size

30 inch from 0 ft to 27 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                                             |
|-----------|----------------|-----------|--------------|--------------------------|--------------------------|----------------------------------------------------|
| 16        | Steel          | +2        | 22           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> slot size _____           |
| 16        | Stainless      | 22        | 27           | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> slot size .080 |
|           | Johnson V-Slot |           |              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> slot size _____           |
|           |                |           |              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> slot size _____           |
|           |                |           |              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> slot size _____           |

## Casing Grout

Placement method pumped

| Type                  | Depth top | Depth bottom |
|-----------------------|-----------|--------------|
| Bentonite/Neat Cement | 9         | 20           |

☒ Gravel packed variety flint sand #80

☐ Seals/packers

## Pump Installation

Date 12 / 26 / 12

Type of pump Grundfos 300S150-3 Depth to intake 26 ft

Pump diameter 6 in Rated capacity 210 GPM

## Water Information

Date 12 / 26 / 12

Use + for above GL measurements.

| Static Water Level | Pumping Water Level | Yield          | Duration        |
|--------------------|---------------------|----------------|-----------------|
| <u>10</u> ft       | <u>19</u> ft        | <u>210</u> GPM | <u>2.00</u> hrs |

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

Water yield measurement: ☐ Orifice ☒ Volumetric ☐ Estimate

Main water-supply zone from 10 ft to 27 ft below GL

## Well Development

☒ Physical explain: Surge Block

☐ Chemical explain: \_\_\_\_\_

## Contractor

Company Steff Well Drilling

Address 2295 66th Ave NE, Willmar, MN 56201

Driller Jim J. Truitt Certification no. 5280

Revision Date: 10/2011

## Well Use

☐ Domestic ☒ Public supply ☐ Livestock

☐ Heat pump ☐ Commercial ☐ Irrigation

# of borehole(s) \_\_\_\_\_ ☐ Monitoring ☒ Other \_\_\_\_\_

Project: POWESHIEK WATER ASSO  
TAMA WELL FIELD  
WELL VW13-12

# TRAUT WELLS

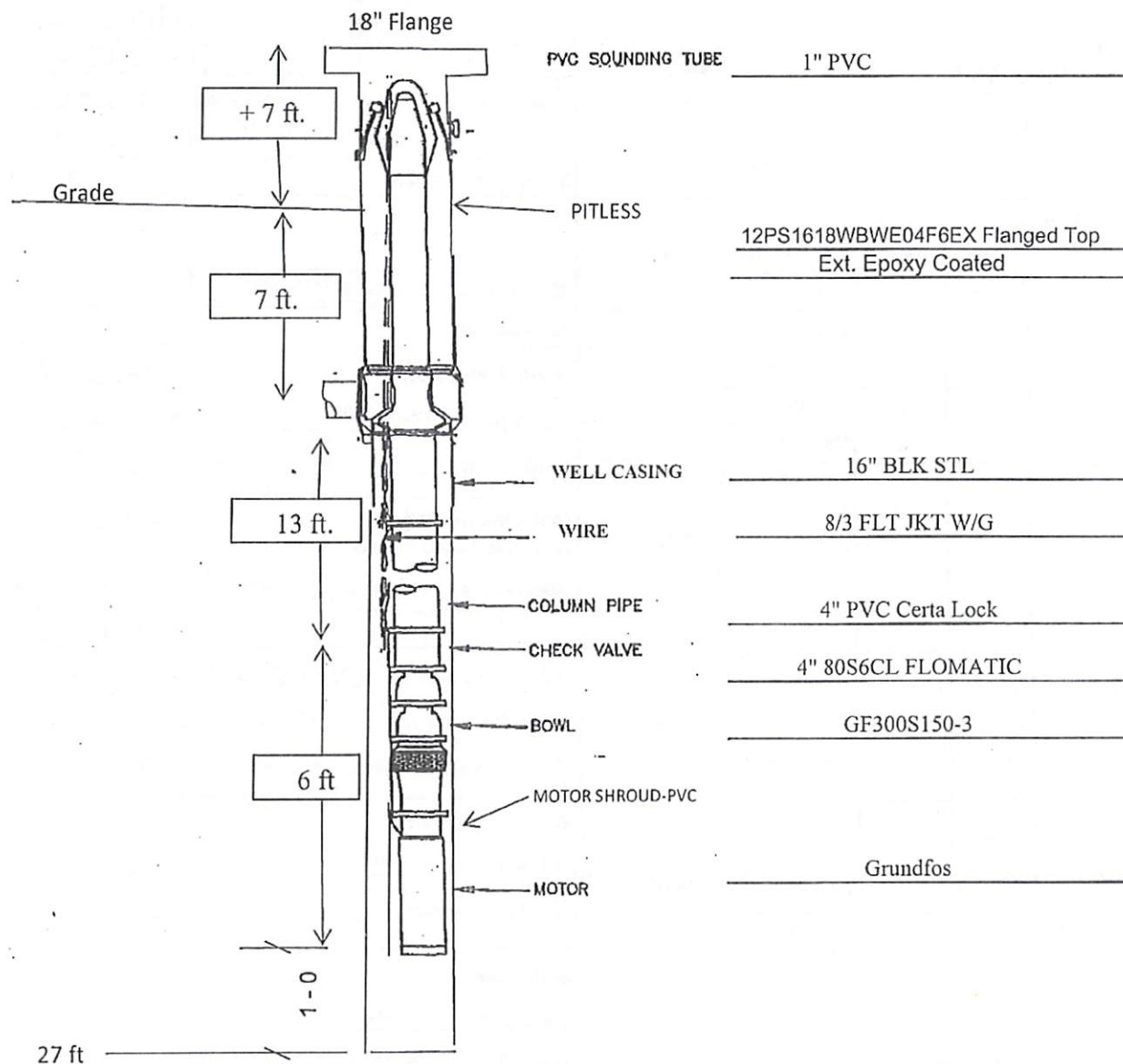
Date: 8/15/13

## WELL DATA

Engineer BARTLETT & WEST  
Static Water Level 10'  
Drilling Date 12/26/12  
Driller MARK J TRAUT WELLS, INC

## PUMP DATA

Manufacturer GRUNDFOS  
Installation Date December 2012  
Installer MARK J TRAUT WELLS, INC  
Capacity 210 GPM@ 139 TDH  
Motor HP 15 RPM 3600  
Volts 460 Phase 3 HZ 60



(Elevations to be Field Verified)

**SUBMERSIBLE PUMP AND PITLESS UNIT**

Not to Scale

Columbia, IA  
41.94019, -92.58275

