

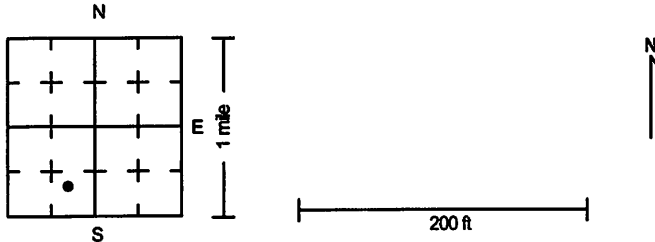
WELL RECORD FORM

079208

PWTS No. or PWS No. 8300184 PWTS Permit No. 2009378 GEOSAM Well No. (IGS use only)

**Site Identification**  
 Property owner Regional Water Other ID WL38 - 20  
 Address 108 US HWY 59 City Avoca  
 Tenant Regional Water  
 Well depth 34 ft Date completed 12 / 6 / 2010

**Drill Method**  Rotary  Auger  Cable  Other Reverse  
**Hole size**  
32 inch from 0 ft to \_\_\_ ft hole size continued  
 \_\_\_ inch from \_\_\_ ft to \_\_\_ ft  
 \_\_\_ inch from \_\_\_ ft to \_\_\_ ft

**Location** County Shelby  
 GPS coordinates (NAD83 datum)  
41.5082210 Latitude -95.3394060 Longitude  
 Decimal Degrees  Degrees, Decimal Minutes  Degrees, Minutes, Seconds  
NW 1/4 of the SE 1/4 of the SW 1/4 of Sec 33 TWP 78 RNG 39 <sup>E</sup> <sub>(W)</sub>  
 Show exact location of well in section grid with a dot (.). Sketch map of well location on property.  


**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
8	Pitless Adapter	+5.5'	4.5'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
8	Steel Casing	4.5'	26.5'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
16	SS Screen	26.5'	33.5'	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> slot size <u>0.080</u>
				<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 Pressure Tremie

Type	Depth Top	Depth Bottom	Amount (vol/wt)
Cement Grout	6'	12'	2 cyd
Bentonite Chips	12'	21'	62 bags
<input checked="" type="checkbox"/> Gravel packed variety <u>L.R. AA</u>	21	34	4 tons
<input type="checkbox"/> Seals/packers			

**Formation Log**

From	To	Color	Hardness	Formation description
0	11	Tan		Clay
11	23	Gray		Fine-medium sand & gravel
23	34	Gray		Med sand & gravel w/cobbles

(use additional sheets as needed)

**Pump Installation** Date 5 / 18 / 2011  
 Type of pump Submersible Depth to intake 33 ft  
 Pump diameter 6 in Rated capacity 120 GPM

**Water Information** Date 01 / 28 / 2011  
 Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
<u>14</u> ft	<u>22</u> ft	<u>300</u> GPM	<u>48.00</u> hrs

Water level measurement:  Sonic  Tape  Airline  E-line  Estimate  
 Water yield measurement:  Orifice  Volumetric  Estimate  
 Main water-supply zone from 27 ft to 34 ft below GL

**Well Development**  
 Physical explain: Surge Block, bailer, rawhide pumping, etc.  
 Chemical explain: \_\_\_\_\_

**Remarks** (including depth of lost drilling fluids, materials, or tools)

**Contractor**  
 Company Layne Christensen Company  
 Address 4601 N. 252nd Street, Valley, NE 68064  
 Driller Mark Leslie Certification no. 3684

**Well Use**  
 Domestic  Public supply  Livestock  
 Heat pump  Commercial  Irrigation  
 # of borehole(s) \_\_\_\_\_  Monitoring  Other \_\_\_\_\_



Layne Christensen Company  
 3150 SE Gateway Drive, Suite B  
 Grimes, IA 50111  
 (515) 986-3462 / 3474 Fax

# SUBMERSIBLE PUMP INSTALLATION REPORT



**JOB NAME:** Regional Water  
 Address: 108 HWY 59  
 City, State: Avoca, IA 51521

**DATE PROJECT COMPLETED:** 05/18/11

**PUMP NO:** D1117W02  New Pump  Repair  
 Pump Trouble: New pump installation

**PUMP SIZE**

	Diameter	Lengths
Discharge	<input type="checkbox"/> Above	
	<input checked="" type="checkbox"/> Below	
Column	2" PVC <input checked="" type="checkbox"/> Screw <input type="checkbox"/> Flange	1 x 20' 1 x 1'
Pitless Unit	8"	9' 7"

Column setting to bowl: 31 ft.

**BOWL ASSEMBLY:**

Manufacturer: Grundfos  
 Diameter: 6" Shaft Diameter: \_\_\_\_\_  
 Type: 150S75-3 No. Stages: 3  
 Bowl Length: 23" Bowl Material: SST  
 Check valve in column:  Yes  No Size: 2" Brz.  
 Submersible cable size: #10  
 Special paint, coatings, zinc sleeves, etc: N/A

**MOTOR:**

Make: Grundfos HP: 7.5  
 Speed: 3450 rpm Volts: 230  
 Diameter: 4" Length: 23"  
 Serial # 11B141600430C  
 Amperes: 23

**MEGGER CHECK:**

	On Ground		Installed In Well	
Motor leads				
Cable leads				

**WELL:**

No: 20 Year Drilled: 2010

Location: Avoca well field - south end

Diameter: 8" x 16" Depth: 39'

Measured from top of 8 " diameter pitless  
 which is 2 feet above ground level

Tape to water: 18'  
 Airline length: 31' A.L. Material: 1/4" Toro

Static Gauge: 13' Static Level: 18'  
 Pumping Gauge: \_\_\_\_\_ Pumping Level: \_\_\_\_\_  
 Disch. Pressure: \_\_\_\_\_ psi when pumping into  
 system at \_\_\_\_\_ gpm

**INSTALLER:** D. Hansen

Rig Used: Customer's Rig

**PUMP REPAIR**

CONDITION OF PUMP WHEN PULLED	NEW PARTS INSTALLED
Column: <u>N/A</u>	Column: <u>21' - 2" PVC drop pipe</u> <u>1 - 2" bronze check valve</u>
Bowl: <u>N/A</u>	Bowl: <u>Grundfos 150S75-3 pump end</u>
Motor: <u>N/A</u>	Motor: <u>Grundfos 7.5-HP, 3/60/230V, 4" motor</u> <u>#10 submersible pump cable</u>
Head: <u>N/A</u>	Head: <u>8" x 10" Baker Monitor pitless adapter</u>
SHOP/MACHINE WORK: _____	1. DRAIN PORTS OPEN? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. CHLORINATE WELL? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 3. ALIGN PUMP HEAD WITH DIAL INDICATOR? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 4. GROUTED BASE PLATE? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 5. PUMP RUNS: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Bad