

WELL RECORD FORM

079209

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

Site Identification

Property owner Regional Water Other ID WL40 - 8R
 Address 108 US HWY 59 City Avoca
 Tenant Regional Water
 Well depth 31 ft Date completed 5 / 18 / 2010

Drill Method Rotary Auger Cable Other Reverse

Hole size
32 inch from 0 ft to 31 ft
 _____ inch from _____ ft to _____ ft

Location

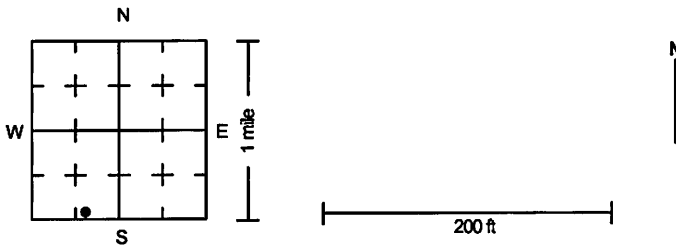
County Shelby
 GPS coordinates (NAD83 datum)
41.5059940 Latitude 95.3412270 Longitude
 Decimal Degrees Degrees, Decimal Minutes Degrees, Minutes, Seconds
SW 1/4 of the SE 1/4 of the SW 1/4 of Sec 33 TWP 78 RNG 39 W

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'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
8	Steel Casing	5'	26'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
16	SS Screen	26'	31'	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> slot size <u>0.100</u>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____

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



Casing Grout

Type	Placement method <u>Pressure Tremie</u>		
	Depth Top	Depth Bottom	Amount (vol/wt)
Cement Grout	6'	13'	2 cyd
Bentonite Chips	13'	20'	55 bags
<input checked="" type="checkbox"/> Gravel packed variety <u>L.R. AA</u>	20	31	4 tons
<input type="checkbox"/> Seals/packers			

Formation Log

From	To	Color	Hardness	Formation description
0	9	Tan		Clay
9	18	Gray		Fine-medium sand
18	24	Gray		Medium sand & gravel
24	31	Gray		Med sand & gravel w/cobbles

Pump Installation

Date 5 / 18 / 2011
 Type of pump Submersible Depth to intake 31 ft
 Pump diameter 6 in Rated capacity 100 GPM

Water Information

Date 02 / 05 / 2011
 Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
<u>15</u> ft	<u>23</u> ft	<u>180</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 26 ft to 31 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)

Well Use

Domestic Public supply Livestock
 Heat pump Commercial Irrigation
 # of borehole(s) _____ Monitoring Other _____

Contractor

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



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: D1117W06 New Pump Repair
 Pump Trouble: New pump installation

PUMP SIZE

	Diameter	Lengths
Discharge	<input type="checkbox"/> Above <input checked="" type="checkbox"/> Below	
Column	<u>2" PVC</u> <input checked="" type="checkbox"/> Screw <input type="checkbox"/> Flange	<u>1 x 19'</u>
Pitless Unit	<u>8"</u>	<u>9' 7"</u>

Column setting to bowl: 29 ft.

BOWL ASSEMBLY:

Manufacturer: Grundfos
 Diameter: 6" Shaft Diameter: _____
 Type: 85S50-3 No. Stages: 3
 Bowl Length: 19.5" 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: 5
 Speed: 3450 rpm Volts: 230
 Diameter: 4" Length: 2'
 Serial # 79304509
 Amperes: 17.4

MEGGER CHECK:

	On Ground		Installed In Well	
Motor leads				
Cable leads				

WELL:

No: 8R Year Drilled: 2010

Location: Avoca well field - south end

Diameter: 8" x 16" Depth: 36' 3"

Measured from top of 8 " diameter pitless
 which is 5 feet above ground level

Tape to water: 18.5'
 Airline length: 29.5' A.L. Material: 1/4" Toro

Static Gauge: 11' Static Level: 18.5'
 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>19' - 2" PVC drop pipe</u> <u>1 - 2" bronze check valve</u>
Bowl: <u>N/A</u>	Bowl: <u>Grundfos 85S50-3 pump end</u>
Motor: <u>N/A</u>	Motor: <u>Grundfos 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