

75092

WELL RECORD

1 of 5

PWTS Permit No. \_\_\_\_\_

Iowa Department of Natural Resources - Geological Survey  
109 Trowbridge Hall, Iowa City, IA 52242-1319 PH (319) 335-1575

PWTS Well No. \_\_\_\_\_

County Permit No. 37418

**Site identification** 2162969

Property Owner Dale Jensen Other ID \_\_\_\_\_

Address 2012 Luke Lane Fort Dodge

Tenant \_\_\_\_\_

Well Depth 702 ft Date completed 9/18/12

**Drill method**  rotary  auger  cable  other \_\_\_\_\_

**Hoie size**

9 7/8 inch from 0 ft to 338 ft

5 3/4 inch from 338 ft to 702 ft

hole size continued \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft

**Location** County Webster

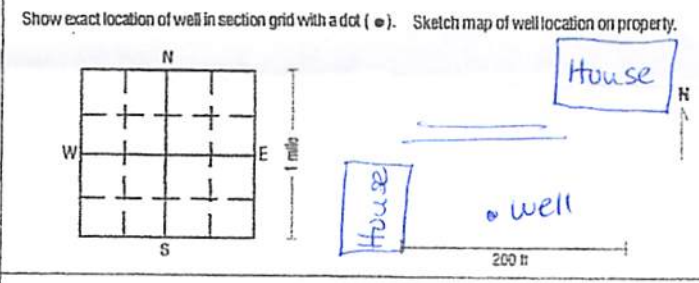
mi. # and mi. E of intersection of \_\_\_\_\_ and \_\_\_\_\_  
 1/4 of the 1/4 of the 1/4 of the Sec 26 TWP 89 RNG 29 E 10

GPS Coordinates (NAD83 datum only) decimal degrees:  
42.4989700 N. Latitude 94.240417 W. Longitude.

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

**Casing** Drive shoe (yes/no) \_\_\_\_\_ Pitless adapter (yes/no) \_\_\_\_\_

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
<u>6.9 PVC</u>	<u>250</u>	<u>+1</u>	<u>338</u>	
<u>4 1/2 PVC</u>	<u>250</u>	<u>338</u>		



**Perforated or slotted casing?** (yes/no)  no

Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft

Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft

**Casing grouted?** (yes/no)  yes Placement method pumped

Type	Depth top	Depth bottom	Amount (vol/wt)
<u>Benseal</u>	<u>0</u>	<u>338</u>	<u>29 bags</u>

upland  hillside  valley  level surface Elevation (if known) \_\_\_\_\_

**Well screen?** (yes/no)  no

Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>0</u>	<u>0</u>				
<u>0</u>	<u>0</u>				

**Formation log**

From	To	Color	Hardness	Formation description
0	1	Black	S	topsoil
1	7	orange	S	gravel? sand
7	12	yellow	S	Clay
12	27	Blue	S	Clay
27	36	yellow	S	Clay
36	50	yellow	S	Sand
50	56	yellow	S	Clay
56	73	gray	S	Sticky clay
73	76	yellow unit	S	Clay
76	87	green gray	S	Sandy Clay
87	90	white	S	Sandy Clay
90	102	white	S	Coarse Sand
102	113	red	S	Clay
113	118	yellow	S	Clay

use additional sheets as needed

Bottom capped (yes/no) \_\_\_\_\_ with \_\_\_\_\_

Seals / Packers (yes/no) \_\_\_\_\_ kind \_\_\_\_\_ depth \_\_\_\_\_ ft

Gravel packed (yes/no)  yes from \_\_\_\_\_ ft to \_\_\_\_\_ ft

type \_\_\_\_\_ amount \_\_\_\_\_

**Well developed?** (yes/no)  yes

Explain \_\_\_\_\_

(pumped, airlifted, bailed) for \_\_\_\_\_ hrs at \_\_\_\_\_ GPM

**Pump installed?** (yes/no) \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Installer's name \_\_\_\_\_

Type of pump \_\_\_\_\_ Depth to intake \_\_\_\_\_ ft

Pump diameter \_\_\_\_\_ Rated capacity \_\_\_\_\_ GPM?

**Water information** Aquifer:  sand / gravel  limestone  sandstone

Main water-supply zone from 515 ft to 702 ft  seepage well

Static water level 186 ft (below/above) GL;  tape  airline  E-line  estimate

Pumping water level 280 ft below GL;  tape  airline  E-line  estimate

At yield of 30 GPM;  orifice  volumetric  estimate for 2 hours

Measurements taken at \_\_\_\_\_: \_\_\_\_\_ (AM/PM) Date \_\_\_\_/\_\_\_\_/\_\_\_\_

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

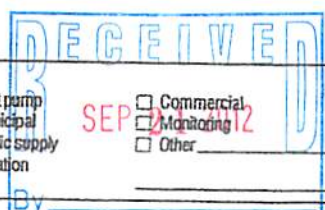
**Water quality test?** (yes/no) \_\_\_\_\_ Date tested \_\_\_\_/\_\_\_\_/\_\_\_\_

Tested by \_\_\_\_\_

**Well use**

Domestic  Heat pump  Commercial  Livestock  Municipal  Monitoring  Public supply  Irrigation  Test well  Other \_\_\_\_\_

By \_\_\_\_\_



Contractor Schumacher Well Drilling

Address 2201 Stage Dr. Algona Ia

Driller Jeremy Walker Certification no. 6087

PWTS No. or PWS No. _____		PWTS Permit No. <u>37418</u>		GEOSAM Well No. (DNR use only) <u>75092</u>																																																																																												
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PWTS No. or PWS No. \_\_\_\_\_ PWTS Permit No. 37412 GEOSAM Well No. (DNR use only) 75092

**Site Identification**  
 Property owner Dale Jensen Other ID 2162969  
 Address \_\_\_\_\_ City \_\_\_\_\_  
 Tenant \_\_\_\_\_  
 Well depth \_\_\_\_\_ ft Date completed \_\_\_\_/\_\_\_\_/\_\_\_\_

**Drill Method**  Rotary  Auger  Cable  Other \_\_\_\_\_

**Hole size**  
 \_\_\_\_\_ inch from 0 ft to \_\_\_\_\_ ft  
 \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft

**Location** County \_\_\_\_\_  
 GPS coordinates (NAD83 datum)  
 \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Decimal Degrees  Degrees, Decimal Minutes  Degrees, Minutes, Seconds  
 \_\_\_\_\_ 1/4 of the \_\_\_\_\_ 1/4 of the \_\_\_\_\_ 1/4 of Sec \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_ W  
 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	Rebarbed	Slotted	Screen
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
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				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
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**Casing Grout** Placement method \_\_\_\_\_  
 Type \_\_\_\_\_ Depth top \_\_\_\_\_ Depth bottom \_\_\_\_\_

**Formation Log**

From	To	Color	Hardness	Formation description
243	257	light gray	S	Shale
257	260	green	S	shale
260	275	red	S	Clay
275	277	gray	m	limestone
277	286	white	S	Shale
286	313	red	S	Clay
313	321	green	m	Shale
321	335	brown	mH	limestone
335	342	white	mH	limestone
342	347	green	S-m	Shale
347	351	tan	mH	limestone
351	358	gray	M-S	Shale
358	364	brown	mH	limestone
364	371	white	mH	limestone
371	377	brown	mH	limestone
377	390	brown	softer	Dolomite

**Pump Installation** Date \_\_\_\_/\_\_\_\_/\_\_\_\_  
 Type of pump \_\_\_\_\_ Depth to intake \_\_\_\_\_ ft  
 Pump diameter \_\_\_\_\_ in Rated capacity \_\_\_\_\_ GPM

**Water Information** Date \_\_\_\_/\_\_\_\_/\_\_\_\_  
 Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
_____ ft	_____ ft	_____ GPM	_____ hrs

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

**Well Development**  
 Physical explain: \_\_\_\_\_  
 Chemical explain: \_\_\_\_\_

**Contractor**  
 Company Schumacher Well  
 Address \_\_\_\_\_  
 Driller J Walker Certification no. 6087

**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 \_\_\_\_\_

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435	447	light brown	MH	Limestone																																				
447	515	white	MH	Limestone																																				
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523	547	white	MH	Limestone																																				
547	560	brown	MH	Dolomite																																				
560	565	white	MH	Limestone																																				
565	585	light brown	MH	Limestone																																				
585	610	brown	softer	Dolomite																																				
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