w76288

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

WELL RECORD

RECEIVED AUG 23 2013

PWS

PWTS Permit No. 2012-0298 W

PWTS Well No. PWS 8114000

County Permit No. ZR Well No.

Site identification

Property Owner City of Early Other ID Well #2 Replacement

Address 107 Main Street, Early, IA 50535

Tenant City of Early

Well Depth 42 ft Date completed 09 / 14 / 12

Location

County Sac

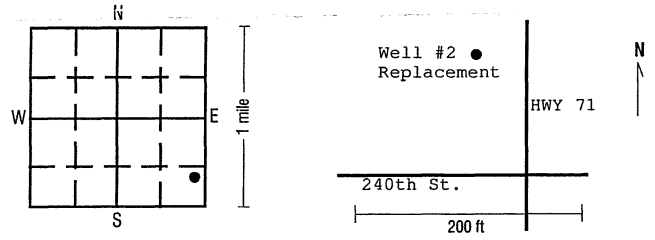
1/5 mi. (N) (S) and 1/16 mi. (E) (W) of intersection of 240th St. and HWY 71

NE 1/4 of the SE 1/4 of the SE 1/4 of Sec 9 TWP 88 RNG 37 (E) (W)

GPS Coordinates (NAD83 datum only) decimal degrees:

42.44668 N. Latitude -95.14892 W. Longitude.

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



☐ upland ☐ hillside ☐ valley ☒ level surface Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	4	Black		Topsoil
4	8	Brown		Sandy clay
8	16	Gray		Fine-med sand
16	21	Gray		Med-coarse sand
21	34	Gray		Fine-med sand & coarse gravel w/cobbles

use additional sheets as needed

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

Well use

☐ Domestic ☐ Livestock ☐ Test well
☐ Heat pump ☒ Municipal ☐ Public supply ☐ Irrigation
☐ Commercial ☐ Monitoring ☐ Other _____

Drill method

☐ rotary ☐ auger ☐ cable other Reverse

Hole size

20	inch	from 0 ft	to 35 ft	____	inch	from ____ ft	to ____ ft
____	inch	from ____ ft	to ____ ft	____	inch	from ____ ft	to ____ ft

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)
12"	0.375"	8'	24'	16'

Perforated or slotted casing? (yes) (no)

Perforated / slotted from ____ ft to ____ ft

Perforated / slotted from ____ ft to ____ ft

Casing grouted? (yes) (no)

Placement method Pressure Tremie

Type	Depth top	Depth bottom	Amount (vol/wt)
Neat Cement	8'	20'	1 cyd

Well screen? (yes) (no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
12"	0.100	25'	34'	9'	SST
	0.___				

Bottom capped (yes) (no) with SST Plate Attached

Seals / Packers (yes) (no) kind Bentonite depth 20-22 ft

Gravel packed (yes) (no) from 22 ft to 35 ft

type Northern #3 amount 2 Tons

Well developed? (yes) (no)

Explain Surge block, bailer, rawhiding

(pumped), airlifted, (bailed) for 8 hrs at 50-150 GPM

Pump installed? (yes) (no)

Date 12 / 15 / 12

Installer's name Dooling/Carlisle

Type of pump Submersible Depth to intake 28 ft

Pump diameter 6" Rated capacity 100 GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone

Main water-supply zone from 25 ft to 34 ft ☐ seepage well

Static water level 19 ft (below) above) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

Pumping water level 25.7 ft below GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

At yield of 80 GPM; ☒ orifice ☐ volumetric ☐ estimate for 24 hours

Measurements taken at 2 : 00 (AM) (PM) Date 01 / 03 / 13

Water quality test? (yes) (no)

Date tested 01 / 03 / 13

Tested by Iowa Hygienic Lab

Contractor Layne Christensen Company

Address 3150 SE Gateway Drive, Suite B, Grimes, IA

Driller Mark Leslie Certification no. 3684

Send original form to: **Iowa Department of Natural Resources – Geological Survey**

Make photocopies for: **Well Contractor, Customer, and County Health Department**