

WELL RECORD 8 5 8 7 9 - PWTS Permit No. _____

1/3/2017 Gingerich Well & Pump

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

PWTS Well No.: _____

County Permit No. _____

Site identification

Property Owner: CITY OF NORTH LIBERTY WELL #8 Other ID: WELL 8

Address 920 WEST ZELLER, NORTH LIBERTY, IA 52317

Tenant _____

Well Depth: 1700 ft Date Completed: 4/5/2017

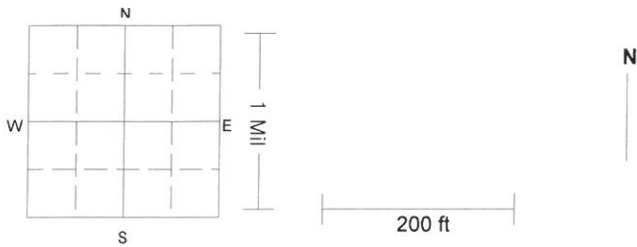
Location County JOHNSON COUNTY IOWA

____ mi. ^N/_S and ____ mi. ^E/_W of intersection of _____ and _____
1/4 of the 1/4 of the 1/4 of Sec TW RN ^E/_W

GPS Coordinateds (NAD83 datum only) decimal degrees:

_____ N. Latitude _____ W. Longitude.

Show exat 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
				SEE ATTACHED FORMATIONS

Drill method rotary auger cable other _____

Hole size

36 inch from 0 ft t 110 ft 22 inch from 1165 ft t 1700 ft
29 inch from 110 ft t 1165 ft _____ inch from _____ ft t _____ ft

Casing

Drive shoe Pitless adaptor

Size (ID/OD)	Type/ Wt	Depth top	Depth bottom	Amount (length)
30 OD	STEEL .500	+2	110	112
24 OD	STEEL .500	1	1165	

Perforated or slotted casing?

Perforated Slotted from _____ ft t _____ ft
 Perforated Slotted from _____ ft t _____ ft

Casing grouted? Grouted Placement method: HALLIBURTON

Type	Depth top	Depth bottom	Amount (vol/wt)
CEMENT	0	110	290 BAGS
CEMENT	0	1165	1520 BAGS

Well Screen? Screen

Diameter	Slot size	Depth top	Depth bottom	Lenght	Material

Bottom Capped with _____

Packers kind _____ depth _____ ft

Seals kind _____ depth _____

Gravel packed from _____ to _____ ft
type _____ amount _____

Well developed? Well Developed

Explain WITH AIR

pumped airlifted bailed for 16 hrs at _____ GPM

Pump installed? Pump Installed

Date _____
Type of Pump _____ Depth to Intake _____ ft
Pump diameter _____ Rated Capacity GPM _____ GPM

Water information Sand/gravel Limestone Sandstone

Main water-supply zone 1 from 1165 ft to 1630 ft seepage well
Main water-supply zone 2 from _____ ft to _____ ft

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

Pump water level _____ ft (below GL) tape airline E-line estimate

At yield of _____ GPM: Orifice Volumetric Estimate for _____ hours
Measurement taken at _____ Date _____

Water quality test?

Tested by _____ Date _____

Contractor name GINGERICH WELL PUMP SERVICE, LLC
Address 1331 HWY 1, KALONA, IA 52246

Driller _____ Certification no. _____

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

Well use

Domestic Heat Pump Commerical
 Livestock Municipal Monitoring
 Test Well Public Supply Other _____
 Irrigation _____

04-27-2017

NORTH LIBERTY WELL 8 FORMATION LOG

FROM	TO	COLOR	FORMATION DESCR.
0	31	BROWN	CLAY
31	63	BLUE	CLAY
63	100	GRAY	SHALE
100	262	GRAY/TAN	LIMESTONE
262	265	GRAY	SHALE
265	275	LT GRAY	LIMESTONE
275	277	GRAY	SHALE
277	333	LT GRAY	LIMESTONE
333	470	WHITE/GRAY	LIMESTONE
470	720	GREEN	SHALE
720	965	LT TAN	LIMESTONE
965	1030	BROWN	LIMESTONE
1030	1035	GREEN	SHALE
1035	1060	WHITE	SANDSTONE
1060	1192	LT TAN	DOLOMITE
1192	1194	GREEN	SHALE
1194	1206	TAN	DOLOMITE
1206	1212	ROSE	SANDSTONE
1212	1325	LT WHITE	DOLOMITE
1325	1330	WHITE	SANDSTONE
1330	1445	GRAY	DOLOMITE
1445	1461	WHITE	SANDSTONE
1461	1492	ROSE WHITE	DOLOMITE
1492	1510	WHITE	SANDSTONE
1510	1515	WHITE	DOLOMITE
1515	1552	BROWN	LIMESTONE
1552	1560	ROSE	DOLOMITE
1560	1632	WHITE	SANDSTONE
1632	1700	LT TAN	DOLOMITE