

**Site identification**  
 Property Owner City of Luana Well Number 2  
 Address 409 Borgess Street  
 State Iowa  
 Well Depth 560 ft Date Completed 2 / 16 / 2012

**Location** County Clayton  
 \_\_\_ mi. N and \_\_\_ mi. E of intersection of \_\_\_ and \_\_\_  
SW 1/4 of the NW 1/4 of the SW 1/4 of Sec 9 TWP 95 RNG 5 E W  
 Show exact location of well in section grid with a dot (•).  
 Sketch map of well location on property

upland  hillside  valley Elevation (if known) 1140

**Formation log**

From	To	Color	Hardness	Formation description
0	6		Soft	Topsoil
6	18	Blue	Soft	Clay
18	171	Brown	Hard	Limerock
171	198	Gray	Hard	Limerock
198	243	Brown	Hard	Limerock
243	349	Blue	Med.	Limerock with shale seams
349	418	Brown	Med.	Limerock with small shale seams
418	452	White	Soft	Sandstone
452	560	Brown	Hard	Limerock



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

**Well use**  
 Domestic  Municipal  Industrial  
 Livestock  Public Supply  Monitoring  
 Test Well  Irrigation  Other (explain)

**Drill method**  rotary  auger  cable other \_\_\_\_\_  
**Hole size**  
13 inch from 0 ft to 465 ft hole size continued \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
7 7/8 inch from 465 ft to 560 ft \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft

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

**Casing** Drive shoe (yes/no) (no) Pitless adaptor (yes/no) (no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
8.625"	375/33.07+2		463'	465'

**Perforated or slotted casing?** (yes/no) (no)  
 Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft

**Casing grouted?** (yes/no) (no)

Type	Depth Top	Depth Bottom	Amount
Cement	0	465'	350 Bags

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

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
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Bottom capped (yes/no) (no) with \_\_\_\_\_  
 Seals / Packers (yes/no) (no) kind \_\_\_\_\_ depth \_\_\_\_\_ ft  
 Gravel packed (yes/no) (no) from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 type \_\_\_\_\_ amount \_\_\_\_\_

**Well developed?** (yes/no) (no)  
 Explain: Airlifted

**Pump installed?** (yes/no) \_\_\_\_\_ Date 4 / 31 / 2012  
 Installer's name Northway Well and Pump Company  
 Type of pump Submersible Depth to intake 463 ft  
 Pump diameter 6" Rated capacity 150 GPM

**Water information** Aquifer:  sand/gravel  limestone  sandstone  
 Main water-supply zone from 465 ft to 560 ft  
 Final water level (static water level) 352 ft (below) above GL  
 Pumping water level 397 ft below GL;  tape  airline  E-line  
**Flow Meter**  
 At yield of 160 GPM;  orifice  volumetric  estimate Date 3/28/12

**Water quality test?** (yes/no) (no) Date tested 3 / 28 / 2012  
 Tested by Hygenic Laboratory  
 Test results On File

Contractor Northway Well and Pump Company  
 Address 4895 8th Avenue - Marion, Iowa  
 Driller Mark Evans Certification no. 2392

# Northway Well and Pump Co.

4895 8th Avenue  
Marion, Iowa 52302  
319-377-6339  
1-800-747-6339

100 North 6th Street  
Waukee, Iowa 50263  
515-987-4575  
1-800-747-4575

AMPS 41-41-41  
VOLTS 46

## WELL TEST DATA REPORT

Customer City of Luana and MSA Professional City Luana, Iowa  
Location \_\_\_\_\_ Well No. #2  
Size Casing 8" Total Depth 560 Construction Steel  
Make Pump Grundfos Model No. SP 45/40 HP No. of Stages 12  
Diameter 6 Total Setting 442 Air Line Length 442  
Meter Used 4" prop Static Level 352

DATE	TIME	GPM	P.L.	D.D.	S.C.	P.S.I.	TEMP DISCHARGE DESCRIPTION
3-28-2012	9:00 am	155	363	11	14.5	0	Clear
	9:01	160	378	26	6.1	0	"
	9:02	160	400	48	3.33	0	"
	9:03	160	400	48	3.33	0	"
	9:04	160	400	48	3.33	0	"
	9:05	160	400	48	3.33	0	"
	9:10	160	397	45	3.55	0	"
	9:15	160	397	45	3.55	0	"
	9:20	160	397	45	3.55	0	"
	9:25	160	397	45	3.55	0	"
	9:30	160	397	45	3.55	0	"
	9:45	160	397	45	3.55	0	"
	10:00	160	397	45	3.55	0	"
	10:15	160	397	45	3.55	0	"
	10:30	160	397	45	3.55	0	"
	10:45	160	397	45	3.55	0	"
	11:00	160	397	45	3.55	0	"
	11:15	160	397	45	3.55	0	"
	11:30	160	397	45	3.55	0	"
	11:45	160	397	45	3.55	0	"
	12:00 pm	160	397	45	3.55	0	"
	12:15	160	397	45	3.55	0	"
	12:30	160	397	45	3.55	0	"
	12:45	160	397	45	3.55	0	"
	1:00	160	397	45	3.55	0	"
	1:15	160	397	45	3.55	0	"
	1:30	160	397	45	3.55	0	"

