70836

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

WELL RECORD

Permit No. __2009-0404W

Site ide	entificatio	n		Drill method ⊠ rotary □ auger □ cable other Reverse					
Property (Owner <u>Mus</u>	scatine Power ar	nd Water Well Number 41	Hole size hole size continued					
Address_	3205 Ce	dar Street - Mi	uscatine, Iowa 52761	42 inch from 0 ft to 79 ft inch from ft to	_ft				
Tenant_	N/A			inch fromft toftinch fromft to	- 1				
Well Dep	th 79	ft Date (Completed 12 / 4 / 2009	Record all depth measurements from ground level (GL). Use (+) for above GL measurements.					
Location	on	County M	uscatine	Casing Drive shoe (yes no Pilless adaptor (yes no					
mi.	N and _	mi. E of inters	ection ofand	Size (ID/OD) Type / Wt Depth top Depth bottom Amount (is	eng(h)				
		••	of Sec 15 TWP76N RNG 2 E	30" 1/2" wall +16' 59' 75'					
Show exa	act location (of well in section grid	with a dot (•),						
	N		Sketch map of well location on property						
	!		N	Perforated or slotted casing? (yes/(m))					
	+ + -			Perforated / slotted from X ft lo X ft Perforated / slotted from X ft to X ft					
W		E E							
	+ + -	1		Casing grouted? (yes/no)					
L	S		200 ft	Type Depth Top Depth Bottom Amount					
Upland	☐ hillsid	le 🗆 valley	Elevation (II known)	Neat Cement 5' 53 48' 9 yards					
	tion log								
From	To	Cofor Hardn		Well screen? (ves/no)					
- GL	3'	Blk.	Top Soil	Diameter Slot size Depth Top Depth Boltom Length Mate	rial				
3,	10'	Red	Red-sandy clay	30 .080 59 79' 20' 5	55				
10'	25'	Red	Sand, Rock - 1-4"	Polling accord (Table) with GG L1					
0F!	001	-	Gravel	Bottom capped (ves) no) with <u>SS plate</u> Seals / Packers (yes) no) kind Hole Plug depth 55' - 53'	[t				
25'	38'	Gray	Sand, gravel	Gravel packed (Ves) no) from 79 th to 55	n				
38' 54'	68'	Brown	Sand, gravel	type #3WP amount 24000 lb.					
68'	79'	Brown	Sand, gravel 3'-6" rocks	Well developed? (yes) no) 6-super sac	ks				
	8' 79' Gray Sand, gravel Explain Double disc. swabbed 40 hr.								
				Used NW220 - Sodium Hyp.					
				Pump installed? (Vesy no) Date 4 / 13 / 20	010				
				Installer's name Northway Well and Pump Company Type of pump Turbine Depth to intake 60 ft Pump diameter 12" Rated capacity 1000 GPM Water information Aquifer: △Sand/gravel □ limestone □sandstone					
				Main water supply zone from 59 ft to 79 ft					
				Final water level (static water level) 14' 6" ft (below / above) GL.					
				Pumping water level <u>35</u> ft below GL; ☐ tape ☐ airline 🖄 E-line					
				At yield of 1250 GPM; Orifice Sovolumetric Destinate Date 12/11/	09				
		use additional sh	octs as needed						
Rema	rks (includ	ling depth of lost dril	ling fluids, materials, or tools)	Water quality test? (yes/no) Date tested// Tested by					
				Test results					
Well u	JSE								
	omestic	☐ Municipal		Contractor_Northway Well and Pump Company					
	vestock est Weil		☐ Other	Address 4895 8th Avenue - Marion, Iowa 52302					
			(explain)	Driller Leon Carpenter Certification no. 1822					

Northway Well and Pump Co.

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

Customer Muscatine Power and Water
Location Well Field @ Power Plant

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

__City __Muscatine, Iowa

Well No.

WELL TEST DATA REPORT

		- rower riam			71		
Size Casing 30"			Total Depth79'		Construction	n <u>Gravel Pack</u>	
Make Pump	O <u>Grundfo</u>	S	_ Model No. _ Total Setti			_ No. of Stage	es <u>2</u>
Diameter _	8"		_ Total Setti	ng	63'	Air Line Le	ngth63'
Meter Used Sparling 6"			_ Static Leve	el <u>14</u>	<u> </u>		
	Propeller ty	ype					
							TEMP DISCHARGE
DATE	TIME	GPM	P.L.	D.D.	S.C.	P.S.I.	DESCRIPTION
12/11/09	7:30	1220	32.1	18.1	67.40		Clear
	8:15	1240	32.9	18,9	65.60		Clear
	8:45	1240	33,6	19.6	63,26		Clear
	9:30	1330	33.6	22.6	58.84		Clear
	10:10	1420	38.1	24.1	58.92		Clear
	11:15	1420	38.2	24.2	59.50		Clear
12/17/09	7:30	1250	32.09	18.9	66.13		Dirty - Pumped out
	8:10	1250	33.4	19.4	64.43		Clear - NW220 with Sod
	8:20	1250	33.7	19.7	63.45		Clear
	8:30	1250	34.0	20.0	62.50		Clear
	8:45	1250	34.3	20.37	61.36		Clear
	9:15	1250	34.45	20.45	61.12		Clear
	9:45	1250	34.60	20.60	60.67		Clear
	10:15	1250	34.75	20.75	60.24		Clear
	10:45	1250	34.80	20.80	60.09		Clear
	11:15	1250	34.81	20.81	60.06		Clear
	11:45	1250	34.82	20.82	60.03		Clear
			37.02	10.02	30.00		
					 		
		+					
		1	 				
			+		+	 	