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

WELL RECORD

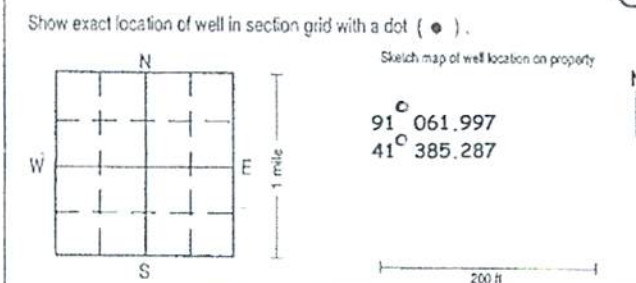
Permit No. 2009-0404W

Site identification  
Property Owner Muscatine Power & Water Well Number 42  
Address 3205 Cedar Street - Muscatine, Iowa  
Tenant Main Well Field 1700 Dick Drake Way  
Well Depth 82 ft Date Completed 4 / 22 / 2011

Drill method  rotary  auger  cable other Reverse  
Hole size  
44 inch from 0 ft to 82 ft hole size continued  
\_\_\_\_ 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.

Location County Muscatine  
\_\_\_\_ mi. N and \_\_\_\_ mi. E of intersection of \_\_\_\_ and \_\_\_\_  
NE 1/4 of the SE 1/4 of the SE 1/4 of Sec 15 TWP 76 RNG 2

Casing Drive shoe (yes/no) Pitless adaptor (yes/no)  
Size (I/O/OD) Type/Wt Depth top Depth bottom Amount (length)  
30" OD 500/157.5 +17.3 62 79.3



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

upland  hillside  valley Elevation (if known) 543

Casing grouted? (yes/no)  
Type Depth Top Depth Bottom Amount  
Cement 5' 53' 16 yards

Formation log  
From To Color Hardness Formation description  
0 5 Top soil & sand  
5 10 Red Sandy clay & sand  
10 48 Brown Med sand & gravel  
with 3" cobbles  
48 55 Brown Coarse sand & gravel with  
boulders  
55 59 Gray Shale  
59 82 Gray Sand & gravel

Well screen? (yes/no)  
Diameter Slot size Depth Top Depth Bottom Length Material  
30" .080 62 82 20 SS

Bottom capped (yes/no) with SS Plate  
Seals / Packers (yes/no) kind Bentonite depth 55 ft  
Gravel packed (yes/no) from 82 ft to 52 ft  
type Northern #3 amount 18,000#

Well developed? (yes/no)  
Explain Cable tool rig, double disc surge block and cleaning agents

Pump installed? (yes/no) Date 5 / 27 / 2011  
Installer's name Northway Well & 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 62 ft to 82 ft  
Final water level (static water level) 7 ft (below/above) GL  
Pumping water level 38 ft below GL;  tape  airline  E-line  
At yield of 1580 GPM;  orifice  volumetric  estimate Date 4/29/2011  
Meter

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

Water quality test? (yes/no) Date tested 4 / 29 / 2011  
Tested by Muscatine Power and Water took the samples  
Test results

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

Contractor Northway Well and Pump Company  
Address 4895 8th Avenue - Marion, Iowa 52302  
Driller Dan Glessner Certification no. 2651

