

WELL RECORD

PWTS Permit No. \_\_\_\_\_

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

PWTS Well No. 140188

County Permit No. \_\_\_\_\_

**Site identification**

Property Owner Muscatine P+W Other ID \_\_\_\_\_

Address Dick Drake Hwy

Tenant \_\_\_\_\_

Well Depth 81 ft Date completed 6/27/16

**Drill method**  rotary  auger  cable other \_\_\_\_\_

**Hole size**  
42 inch from 0 ft to 74.6 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. <sup>N</sup> and \_\_\_\_\_ mi. <sup>E</sup> of intersection of \_\_\_\_\_ and \_\_\_\_\_  
 \_\_\_\_\_ 1/4 of the \_\_\_\_\_ 1/4 of the \_\_\_\_\_ 1/4 of Sec \_\_\_\_\_ TWP \_\_\_\_\_ R<sub>NG</sub> \_\_\_\_\_ E \_\_\_\_\_ W \_\_\_\_\_

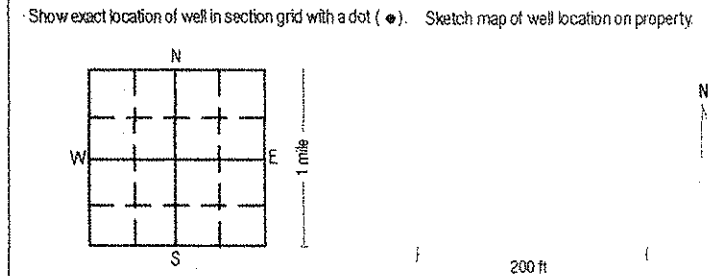
**Casing** Drive shoe (yes/no) \_\_\_\_\_ Pitless adapter (yes/no) \_\_\_\_\_

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
<u>30</u>	<u>Steel</u>	<u>2' 2"</u>	<u>59'</u>	<u>20</u>

GPS Coordinates (NAD83 datum only) decimal degrees:  
41 23.17.05 N. Latitude 91 354.5 W. Longitude.

**Perforated or slotted casing?** (yes/no)  no

Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft



**Casing grouted?** (yes/no)  no Placement method \_\_\_\_\_

Type	Depth top	Depth bottom	Amount (vol/wt)
<u>Neat Cement</u>	<u>4</u>	<u>36</u>	<u>154 bags</u>

upland  hillside  valley  level surface Elevation (if known) \_\_\_\_\_

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

Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>30</u>	<u>0.025</u>	<u>61'</u>	<u>81'</u>		<u>SS</u>

**Formation log**

From	To	Color	Hardness	Formation description
				<u>See attached</u>

use additional sheets as needed

Bottom capped (yes/no)  no with \_\_\_\_\_

Seals / Packers (yes/no)  no kind \_\_\_\_\_ depth \_\_\_\_\_ ft

Gravel packed (yes/no)  no from 39 ft to 79' 6" ft  
 type 10 slot amount 20,000#

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

Explain \_\_\_\_\_

(pumped, airlifted, bailed) for \_\_\_\_\_ hrs at \_\_\_\_\_ GPM

**Pump installed?** (yes/no)  no Date 4/14/16

Installer's name Ray

Type of pump Preferred Pump Depth to intake \_\_\_\_\_ ft

Pump diameter 12" Rated capacity 1200 GPM

**Water information** Aquifer:  sand / gravel  limestone  sandstone

Main water-supply zone from 59 ft to 79 ft  seepage well

Static water level 18' 5" ft (below/above) GL:  tape  airline  E-line  estimate

Pumping water level \_\_\_\_\_ ft below GL:  tape  airline  E-line  estimate

At yield of \_\_\_\_\_ GPM:  orifice  volumetric  estimate for \_\_\_\_\_ hours

Measurements taken at \_\_\_\_\_ (AM/PM) Date \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_

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

**Water quality test?** (yes/no)  no Date tested \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_

Tested by \_\_\_\_\_

**Well use**

Domestic  Municipal  Commercial  Monitoring

Livestock  Public supply  Other

Test well  Irrigation

Contractor Cahoy Pump

Address Summer IA

Driller Darin Cahoy Certification no. 1786

00343 JUL1315 PM 4:05

# DRILLER'S LOG

CLIENT: Muscatine P&W

WELL: 46 ID#140188

DATE STARTED: 11/30/15

DATE COMPLETED:

DRILLER/LIC.#: 1786

County: Muscatine

GPS: 41° 23' 17.05"N 91° 3' 54.3" W

\_\_\_ mi N/S and \_\_\_ mi E/W of intersection of \_\_\_\_\_ and \_\_\_\_\_

\_\_\_ ¼ of the \_\_\_ ¼ of the \_\_\_ ¼ of \_\_\_\_\_ Sec \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_ E/W

ROD#	LENGTH	DEPTH	FORMATION DESCRIPTION	DEPTH STARTED	DEPTH ENDED
Bit	6' 6"	6' 6"	Sandy till	0'	5'
Kelly	21.6"	28'	Silty fine sand	5'	10'
Collar	21'	49'	Fine to coarse sand & gravel	10'	15'
1 <sup>st</sup> rod	21'	70'	Fine to coarse sand & gravel	15'	20'
1 <sup>st</sup> rod	21'	70'	Fine to coarse sand & gravel	20'	25'
1 <sup>st</sup> rod	21'	70'	Fine to coarse sand & gravel	25'	30'
1 <sup>st</sup> rod	21'	70'	Coarse to fine sand w/some cobbles	30'	35'
			Medium to coarse	35'	40'
Screen and Casing					
Screen 20' 4"			Sand and gravel with cobbles		
Casing 4"			Sand and gravel with cobbles	40'	45'
Casing 20'3"			Medium to coarse sand with silt, mud, gravel	45'	50'
Casing 20'3"					
Casing 19' 11"			Medium to coarse sand with silt, mud, gravel	50'	55'
<b>Total 84' 9"=81'</b>			Fine to medium sand	55'	60'

Cut off 3' 9"			Medium to coarse sand with large gravel and cobbles	65'	70'
			Fine sand and pebbles	70'	75'
			Fine sand and pebbles	75'	79'
			Shale	79'	