

65637

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. _____

County Permit No. _____

Site identification
 Property Owner Mahaska Rural Water Systems, Inc. Other ID _____
 Address 101 North J Street, Oskaloosa, Iowa 52577
 Tenant N/A
 Well Depth 52' ft Date completed 9/19/08

Drill method rotary auger cable other Reverse Rotary
Hole size
4.2 inch from 0 ft to 52 ft hole size continued _____ inch from _____ ft to _____ ft
 _____ inch from _____ ft to _____ ft _____ inch from _____ ft to _____ ft

Location County Mahaska
 _____ mi N and _____ mi E of intersection of _____ and _____
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of the _____ Sec _____ TWP _____ R1NG _____ E _____ W _____
 GPS Coordinates (NAD83 datum only) decimal degrees
41.3447° N. Latitude 92.5947° W Longitude

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.
Casing Drive shoe (yes no) Pitless adapter (yes no)

Size (OD)	Type / WT	Depth top	Depth bottom	Amount (length)
<u>24" O.D.</u>	<u>5" wall steel</u>	<u>+2</u>	<u>37</u>	<u>39</u>

Show exact location of well in section grid with a dot (•) Sketch map of well location on property

 upland hillside valley level surface Elevation (if known) _____

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

Formation log

From	To	Color	Hardness	Formation description
<u>0</u>	<u>12</u>	<u>Gray</u>		<u>Clay</u>
<u>12</u>	<u>21</u>	<u>Gray</u>		<u>Fine-medium sand</u>
<u>21</u>	<u>27</u>			<u>Sand, gravel, cobbles</u>
<u>27</u>	<u>30</u>			<u>Limestone ledge</u>
<u>30</u>	<u>37</u>			<u>Sand, gravel, cobbles</u>
<u>37</u>	<u>39</u>			<u>Limestone ledge</u>
<u>39</u>	<u>40</u>			<u>Sand, gravel, cobbles</u>
<u>40</u>	<u>41</u>			<u>Limestone ledge</u>
<u>41</u>	<u>52</u>			<u>Medium-coarse sand, cobbles, boulders</u>
<u>52</u>				<u>Limestone</u>

use additional sheets as needed

Casing grouted? (yes no) Placement method Tremie pipe

Type	Depth top	Depth bottom	Amount (vol/wt)
<u>Neat cement</u>	<u>5</u>	<u>20</u>	<u>110 bags</u>
<u>Bentonite chips</u>	<u>20</u>	<u>21</u>	<u>10 bags</u>

Well screen? (yes no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>24"</u>	<u>0.080</u>	<u>37</u>	<u>52</u>	<u>15</u>	<u>Stainless Steel</u>

 Bottom capped (yes no) with Stainless Steel Plate
 Seals / Packers (yes no) kind _____ depth _____ ft
 Gravel packed (yes no) from 21 ft to 52 ft
 type #80 Red Flint amount 27,000 lbs.
 type #3 Northern amount 20,000 lbs.

Well developed? (yes no)
 Explain Air lifted
 (pumped airlifted bailed) for 3 hrs at 500 GPM

Pump installed? (yes no) Date 10/16/08
 installer's name Cahoy Pump Service, Inc.
 Type of pump Water Lube Lineshaft Depth to intake 45 ft
 Pump diameter 8 7/8" Rated capacity 500 GPM

Water information Aquifer: sand / gravel limestone sandstone
 Main water-supply zone from 37 ft to 52 ft deep well
 Static water level 9 ft (below above) GL: tape airline E-line estimate
 Pumping water level: 20 ft below GL. tape airline E-line estimate
 At yield of 500 GPM: orifice volumetric estimate for 12 hours
 Measurements taken at 9:00 (AM PM) Date 9/30/08

Remarks (including depth of lost drilling fluids, materials, or tools)
Well # 7-07

Water quality test? (yes no) Date tested 9/30/08
 Tested by Cahoy Pump Service, Inc.

Well use
 Domestic Heat pump Commercial
 Livestock Municipal Monitoring
 Test well Public supply Other _____
 Irrigation _____

Contractor Cahoy Pump Service, Inc.
 Address 411 E. Main St., Fredericksburg, Iowa 50630
 Driller: Tony Thier Certification no 8294