

WELL RECORD

76258

PWTS Permit No. 2012-035W

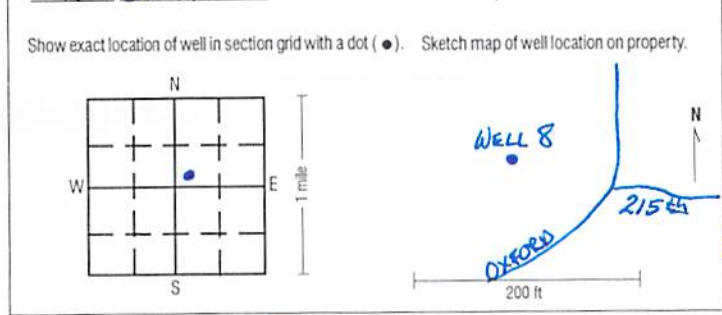
Iowa Department of Natural Resources - Geological Survey
109 Trowbridge Hall, Iowa City, IA 52242-1319 PH (319) 335-1575

PWTS Well No. _____
PWS # 6273901

County Permit No. _____

Site identification
 Property Owner MAHASKA RURAL WATER Other ID 8-12
 Address 401 B. AVE. WEST, OSKALOUSA, IA
 Tenant _____
 Well Depth 48 ft Date completed 9/26/12

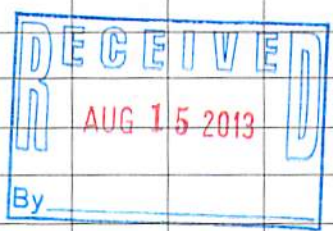
Location County MAHASKA
1/16 mi. ^N and 1/8 mi. ^E of intersection of 215th ST. and OXFORD AVE.
SW 1/4 of the SW 1/4 of the NE 1/4 of Sec 76 TWP 15 ^E W
 GPS Coordinates (NAD83 datum only) decimal degrees:
41.344401 N. Latitude -92.591526 W. Longitude.



upland hillside valley level surface Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	4	BLACK		TOPSOIL
4	15	BROWN		CLAY
15	18	GRAY		FINE-MED. SAND
18	30	GRAY		MED-FINE SAND
30	36	GRAY		MED.+FINE SAND w/GRAVEL
36	48	GRAY		MED. SAND + GRAVEL



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

Well use

<input type="checkbox"/> Domestic	<input type="checkbox"/> Heat pump	<input type="checkbox"/> Commercial
<input type="checkbox"/> Livestock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Test well	<input checked="" type="checkbox"/> Public supply	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Irrigation	

Drill method rotary auger cable other _____
Hole size
42 inch from 0 ft to 48 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.

Casing Drive shoe (yes no) Pitless adapter (yes no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
<u>24"</u>	<u>0.375"</u>	<u>+15.8'</u>	<u>33'</u>	<u>48.8'</u>

Perforated or slotted casing? (yes no)

Perforated / slotted from _____ ft to _____ ft
 Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes no) Placement method PRESSURE TREMIE

Type	Depth top	Depth bottom	Amount (vol/wt)
<u>CEMENT GROUT</u>	<u>0</u>	<u>25'</u>	<u>6 CYD.</u>

Well screen? (yes no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>24"</u>	<u>0.080"</u>	<u>33'</u>	<u>48'</u>	<u>15'</u>	<u>SST.</u>
<u>0.---</u>					

Bottom capped (yes no) with SST PLATE
 Seals / Packers (yes no) kind BENTONITE depth 25'-26' ft
 Gravel packed (yes no) from 26 ft to 48 ft
 type _____ amount 8 TONS

Well developed? (yes no)
 Explain SURGE PUMPEN + BAILED
 (pumped, airlifted, bailed) for 12 hrs at VARIOUS GPM

Pump installed? (yes no) Date 11 / 20 / 12
 Installer's name DOOLING/DEXTER
 Type of pump VERTICAL TURBINE Depth to intake 44 ft
 Pump diameter 9" Rated capacity 500 GPM

Water information Aquifer: sand / gravel limestone sandstone
 Main water-supply zone from 33' ft to 48 ft seepage well
 Static water level 7 ft (below/above) GL; tape airline E-line estimate
 Pumping water level 30.9 ft below GL; tape airline E-line estimate
 At yield of 603 GPM; orifice volumetric estimate for 22 hours
 Measurements taken at 5:00 (AM/PM) Date 10 / 12 / 12

Water quality test? (yes no) Date tested _____ / _____ / _____
 Tested by _____

Contractor LAYNE CHRISTENSEN Co.
 Address 3150 SE GATEWAY DR, STE. B, GRIMES, IA
 Driller MARK LESLIE Certification no. 3684