

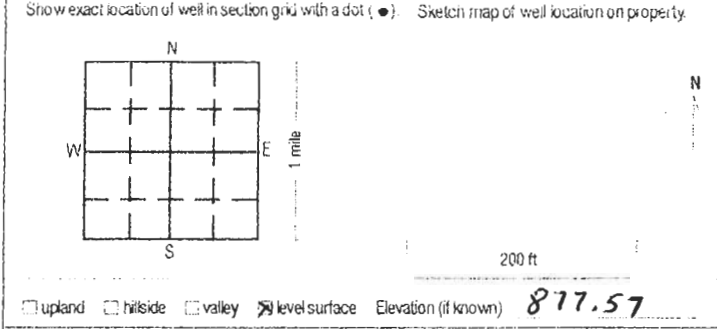
Site identification

Property Owner City of Ames, Iowa Other ID Well #27
 Address 515 Clark Ave., Ames, Iowa 50010
 Tenant N/A
 Well Depth 88 ft Date completed 1/21/07

Location County Story

_____ mi. ^N/_S and _____ mi. ^E/_W of intersection of _____ and _____
 _____ 1/4 of the NE 1/4 of the SW 1/4 of Sec. 13 TWP 83N RANG 24 ^E/_W

GPS Coordinates (NAD83 datum only) decimal degrees:
41.999167 N. Latitude 93.593056 W. Longitude.



Formation log

From	To	Color	Hardness	Formation description
0	5	Black		Till
5	10	Gray		Clay
10	15	Gray		Fine sand w/ clay streaks
15	20	Gray		Fine sand + gravel
20	25	Gray		Sand, gravel w/ cobbles
25	30	Gray		Fine sand
30	89	Gray		Sand, gravel w/ cobbles; boulder at 53

use additional sheets as needed

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

Well use

Domestic Municipal Commercial
 Livestock Public supply Monitoring
 Test well Irrigation Other _____

Drill method rotary auger cable other _____

Hole size Hole size continued

4.2 inch from 0 ft to 89 ft _____ 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>30" O.D.</u>	<u>157.5 lbs/ft.</u>	<u>17</u>	<u>58</u>	<u>65</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 _____

Type	Depth top	Depth bottom	Amount (vol/wt)
<u>Cement Grout</u>	<u>0</u>	<u>8</u>	<u>38 cu. ft.</u>
<u>Bentonite Seal</u>	<u>8</u>	<u>26</u>	<u>9,300 lbs.</u>

Well screen? (yes/no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>30"</u>	<u>0.060</u>	<u>58</u>	<u>88</u>	<u>30</u>	<u>#304 Stainless Steel</u>
	<u>0</u>				

Bottom capped (yes/no) with Stainless Steel Plate
 Seals / Packers (yes/no) kind _____ depth _____ ft
 Gravel packed (yes/no) from 26 ft to 88 ft
 type Red Flint #60 amount 68,000 lbs.

Well developed? (yes/no) Test-Pumped at 1350
 Explain Air lifted for 6 hours @ 500 GPM; GPM for 6 hours
 pumped airlifted bailed for See above hrs at See above GPM

Pump installed? (yes/no) Date 4/17/07
 Installer's name Cahoy Pump Service
 Type of pump Lineshaft Turbine Depth to intake 60 ft
 Pump diameter 12" Rated capacity 840 GPM

Water information Aquifer: sand / gravel limestone sandstone
 Main water-supply zone from 58 ft to 88 ft seepage well
 Static water level 12 ft (below/above) GL: tape wireline E-line estimate
 Pumping water level 24 ft below GL: tape wireline E-line estimate
 At yield of 1350 GPM: orifice volumetric estimate for 6 hours
 Measurements taken at 9:00 (AM/PM) Date 2/6/07

Water quality test? (yes/no) Date tested 2/6/07
 Tested by For Engineering

Contractor Cahoy Pump Service
 Address 411 E. Main St., Fredericksburg, Iowa 50630
 Driller John J. Cahoy Certification no. 1786