

WELL RECORD

63795

PWTS Permit No. 2006-212 W

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

PWTS Well No. 8503039-WL 26

County Permit No.

Site identification

Property Owner City of Ames, Iowa Other ID well # 25
 Address 515 Clark Ave, Ames, Iowa 50010
 Tenant N/A
 Well Depth 75 ft Date completed 1 / 7 / 07

Location

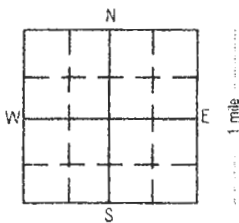
County Story

mi. ^N/_S and mi. ^E/_W of intersection of _____ and _____
SW 1/4 of the SW 1/4 of the NW 1/4 of Sec 13 TWP 83N Rng 24E (W)

GPS Coordinates (NAD83 datum only) decimal degrees:

42.001944 N. Latitude 93.599167 W. Longitude.

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) 879.55

Formation log

From	To	Color	Hardness	Formation description
0	5	Black		Till
5	15	Gray		Fine sand
15	24	Gray		Fine sand w/cobbles
24	30	Gray		Clay
30	60	Gray		Fine to coarse sand + gravel
60	65	Gray		Sand + gravel w/cobbles
65	76	Gray		Coarse sand + gravel with cobbles

use additional sheets as needed

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

Well use

- ☐ Domestic ☒ Heat pump ☐ Commercial
☐ Livestock ☒ Municipal ☐ Monitoring
☐ Test well ☐ Public supply ☐ Other
☐ Irrigation

Drill method

☒ rotary ☐ auger ☐ cable ☐ other

Hole size

hole size continued

4.2 inch from 0 ft to 76 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)
30" 0.0	157.5 lb/ft	+7	45	52

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)
Cement Grout	0	8	38 cu. ft.
Bentonite Seal	8	29	12,200 lbs.

Well screen? (yes ☒ no ☐

Diameter	Slot size	Depth top	Depth bottom	Length	Material
30"	0.090	45	75	30	304 Stainless Steel

Bottom capped (yes ☒ no ☐ with Stainless Steel PlateSeals / Packers (yes ☒ no ☐ kind _____ depth _____ ft

Gravel packed (yes ☒ no ☐ from 29 ft to 75 ft
 type Red Flint #40 amount 60,000 lbs.

Well developed? (yes ☒ no ☐

test-pumped for

Explain As lifted for 6 hours @ 500 GPM; 21 hours @ 1350 GPM
 (pumped/airlifted) bailed for See above hrs at see above GPM

Pump installed? (yes ☒ no ☐Date 4 / 17 / 07Installer's name Cahoy Pump ServiceType of pump Lineshaft Turbine Depth to intake 50 ftPump diameter 12" Rated capacity 840 GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstoneMain water-supply zone from 45 ft to 75 ft ☐ seepage wellStatic water level 12 (below/above) GL: ☒ tape ☒ airline ☐ E-line ☐ estimatePumping water level 28 ft below GL: ☐ tape ☒ airline ☐ E-line ☐ estimateAt yield of 1350 GPM: ☒ orifice ☐ volumetric ☐ estimate for 21 hoursMeasurements taken at 9:00 (AM) PM Date 1 / 31 / 07Water quality test? (yes ☒ no ☐Date tested 1 / 31 / 07Tested by Fox EngineeringContractor Cahoy Pump ServiceAddress 411 E-Main St, Fredericksburg, Iowa 50630Driller Darin Cahoy Certification no. 1786