WELL RECORD 61043

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 CITY OF POCAHONTAS Other ID WELL #4

Address 23 W. ELM AVENUE, POCAHONTAS, IA

Tenant CITY OF POCAHONTAS

Well Depth 257 ft Date completed 4/15/05

Location

County POCAHONTAS

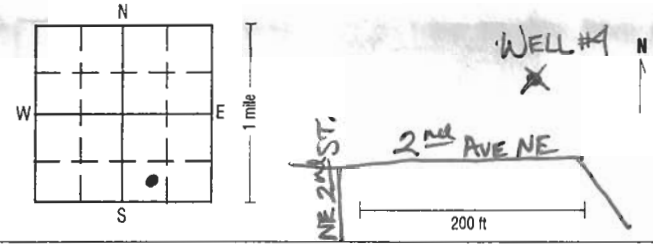
100 FT mi. (N) S and 300 FT mi. (E) W of intersection of NE 2nd ST. and 2nd AVE. NE

NE 1/4 of the SW 1/4 of the SE 1/4 of Sec 31 TWP 92N RNG 32 (E) W

GPS Coordinates (NAD83 datum only) decimal degrees:

_____ . _____ N. Latitude _____ . _____ 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) _____

Formation log

From	To	Color	Hardness	Formation description
0	14'	BROWN	MED.	STICKY CLAY
14'	50'	GRAY		STICKY TILL W/ROCKS
50'	56'	BROWN	HARD	ROCK
56'	88'	GRAY		STICKY TILL W/ROCKS
88'	109'	GRAY		SHALE
109'	190'	TAN		SANDSTONE
190'	223'	GRAY		SHALE
223'	227'	GRAY		SANDSTONE W/SHALE
227'	246.5'	GRAY		SHALE W/SANDSTONE
246.5'	251'	TAN		SANDSTONE
251'	258'	TAN		SANDSTONE W/LIMESTONE
258'				LIMESTONE

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

36 inch	from 0 ft	to 110 ft	____ inch	from ____ ft	to ____ ft
29 inch	from 110 ft	to 258 ft	____ inch	from ____ ft	to ____ ft

hole size continued

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"	0.500"	0	110'	110'
16"	0.500"	+2	142'	144'
16"	0.500"	142'	222'	80'

Perforated or slotted casing? (yes / no)

Perforated / slotted from _____ ft to _____ ft

Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes / no) Placement method TREMIE

Type	Depth top	Depth bottom	Amount (vol/wt)
SAND CEMENT	0	100'	13 CYD.

Well screen? (yes / no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
16"	0.030	142'	182'	40'	SST
16"	0.030	222'	257'	35'	SST

Bottom capped (yes / no) with SST PLATE

Seals / Packers (yes / no) kind BENTONITE depth 100-105 ft

Gravel packed (yes / no) from 105' ft to 257 ft

type NORTHERN # amount _____

Well developed? (yes / no)

Explain SURGE BLOCK, BAILER, RAWHIDING

(pumped) airlifted, (bailed) for 6 hrs at 500 GPM

Pump installed? (yes / no) Date 4/14/05

Installer's name RODNEY RAY / JOE DOOLING

Type of pump VERTICAL TURBINE Depth to intake 155 ft

Pump diameter 9 Rated capacity 450 GPM

Water information

Aquifer: ☐ sand / gravel ☐ limestone ☒ sandstone

Main water-supply zone from 142 ft to 182 ft ☐ seepage well

Static water level 60 ft (below / above) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

Pumping water level 115 ft below GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

At yield of 475 GPM; ☒ orifice ☐ volumetric ☐ estimate for 2 hours

Measurements taken at ____ : ____ (AM / PM) Date 4/14/05

Water quality test? (yes / no) Date tested 8/4/04

Tested by CITY OF POCAHONTAS

Contractor LAYNE-WESTERN

Address 5600 GATEWAY DR., STE. B, GRIMES, IA

Driller BEN BAILEY Certification no. 1310

Send original form to: **Iowa Department of Natural Resources – Geological Survey**

Make photocopies for: **Well Contractor, Customer, and County Health Department**