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

WELL RECORD

North Well # 2 #4

Permit No. _____

Site identification

Property Owner City of Lawton Well Number _____
Address 101 E. Maple St., Lawton, IA 51030
Tenant _____
Well Depth 212 ft Date completed 5/22/06

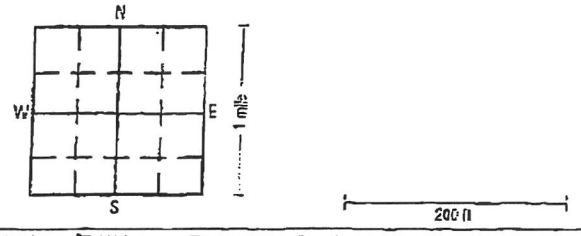
Location

County Woodbury

_____ mi. N/S and _____ mi. E/W of intersection of _____ and _____

NW 1/4 of the NE 1/4 of the SW 1/4 of Sec 32 TWP 89 RNG 45 E/W

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



☐ upland ☒ hillside ☐ valley Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	30	yellow		clay
30	87	grey	soft	clay
87	119	dark	hard	shale
119	130	tan	med	silt stone
130	145	dark	hard	shale
145	161	tan	med	silt stone
161	162.5	tan	hard	sand stone
162.5	163	white		shale
163	213	tan	hard	sand stone
213	216	grey	med	shale

use additional sheets as needed

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

Well use

☐ Domestic ☐ Livestock ☐ Test well
☒ Municipal ☐ Public supply ☐ Irrigation
☐ Commercial ☐ Monitoring ☐ Other _____ (explain)

Drill method

☐ rotary ☐ auger ☐ cable other _____

Hole size

16 inch from 0 ft to 212 ft
_____ inch from _____ ft to _____ ft

Hole size continued
_____ 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)
8"	PVC SDR 17	0	162	162

Perforated or slotted casing? (yes / no)

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

Casing grouted? (yes / no)

Placement method pumped from bottom

Type	Depth Top	Depth bottom	Amount (vol/wt)
Cement grout	0	157	148 bags
bentonite	157	159	2 bags

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
8"	D.050	162	212	50	SS
	D.___				

Bottom capped (yes / no) with SS cap
Seals / Packers (yes / no) kind _____ depth _____ ft
Gravel packed (yes / no) from 155 ft to 212 ft
type muscatine #1 pack amount 2200 #

Well developed? (yes / no)

Explain _____
(pumped, airlifted, bailed) for 12 hrs at 350 GPM.

Pump installed? (yes / no)

Date 6/16/06
Installer's name Vernon Vakoc
Type of pump 10 HP Depth to intake 120 ft
Pump diameter 6" Rated capacity 235 GPM

Water information

Aquifer: ☐ sand / gravel ☐ limestone ☒ sandstone
Main water-supply zone from 145 ft to 212 ft ☐ seepage well
Static water level 47 ft (below / above) GL: ☒ tape ☐ airline ☐ E-line ☐ estimate
Pumping water level 104 ft below GL: ☒ tape ☐ airline ☐ E-line ☐ estimate
At yield of 300 GPM: ☐ orifice ☒ volumetric ☐ estimate
Measurements taken at _____ : _____ (AM / PM) Date 6/30/06

Water quality test? (yes / no)

Date tested ___/___/___
Tested by Samples taken by City

Contractor

Contractor Dakota Drilling & Backhoe, Inc.
Address 507 142nd St. So. Sioux City, NE
Driller Vernon Vakoc Certification no. 5566

white copy – Iowa DNR Geological Survey Bureau blue copy – Well Contractor pink copy – Customer yellow copy – County Health Officer