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

WELL RECORD

57591

Permit No. 2003-338W

Site identification

Replacement

Property Owner: City of Newton Well Number: 19
Address: 101 W. 4th ST. South
Tenant:
Well Depth: 49 ft Date completed: 7/17/03

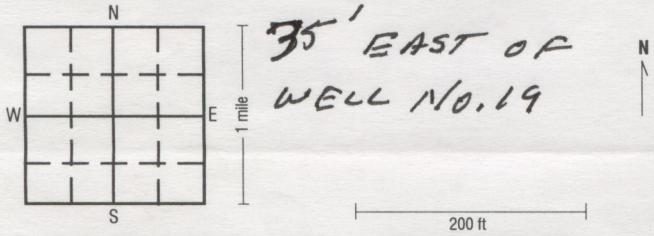
Location

County: Jasper

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

____ 1/4 of the ____ 1/4 of the ____ 1/4 of Sec. 18 TWP. 79 RNG. 19 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): 768

Formation log

From	To	Color	Hardness	Formation description
0	9			Sandy Clay
9	19			Sand Fin to Course
19	49			Sand & Gravel
				FINE TO MED

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 ____ (explain)

Drill method

☐ rotary ☐ auger ☐ cable other: Reverse

Hole size

42 inch from 0 ft to 49 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)
24	Steel	+11'	34'	45'
	125.5 Per FT			

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)
Neat	4	25	140 SACKS

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
24	0.080	34	49	15	S.S.
	0.___				

Bottom capped (yes / no) with S.S. PLATE
Seals / Packers (yes / no) kind ____ depth ____ ft
Gravel packed (yes / no) from 25 ft to 49 ft
type #3 amount 15 TON

Well developed? (yes / no)

Explain: Surged and bail
(pumped, airlifted, bailed) for 7 hrs at 680 GPM.

Pump installed? (yes / no)

Date ?/___/___
Installer's name: CITY
Type of pump: Sub. Depth to intake: 40' ft
Pump diameter: 8" Rated capacity: 600 GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone
Main water-supply zone from 19 ft to 49 ft ☐ seepage well
Static water level 18 ft (below / above) GL; ☒ tape ☐ airline ☐ E-line ☐ estimate
Pumping water level 31 ft below GL; ☒ tape ☐ airline ☐ E-line ☐ estimate
At yield of 680 GPM; ☒ orifice ☐ volumetric ☐ estimate
Measurements taken at 8:30 (AM / PM) Date 7/16/03

Water quality test? (yes / no)

Date tested 7/17/03
Tested by: BY CITY

Contractor: Northway Well & Pump
Address: 100 N. 6th ST. WAUKEE
Driller: Don Murphy Certification no. 40187

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