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

WELL RECORD 73833

Permit No. 040743

Site identification

Property Owner City of Lewis, IA Well Number 4
Address 416 Main St. Lewis, IA 51544
Tenant
Well Depth 104' 10" ft Date completed 07/31/11

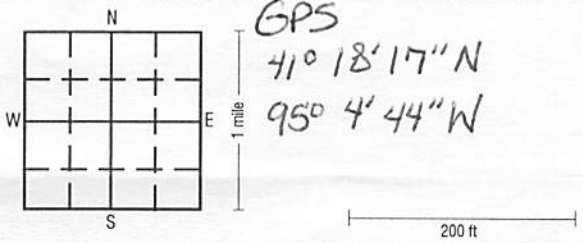
Location

County Cass

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

____ 1/4 of the ____ 1/4 of the ____ 1/4 of Sec ____ TWP ____ RNG ____ 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'	3'	Brown		Top Soil
3'	10'	Brown		Clay & Silt
10'	66'	Brown		Clay
66'	74'	Gray		Clay
74'	76'	Gray		Clay with Fine Sand
76'	79'			Sand with Cause gravel
79'	86.5'			Sandstone
86.5'	104'10"	Red		Clay

use additional sheets as needed

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By

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 Circulation

Hole size

32 inch from 0 ft to 104'10" 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)
12" OD	.375	+2'	83'	85'

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)
Neat Cement Grout	5'3"	65'	283 bags 13 yds

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
12"	0.060	83'	103'	20'	SS
	0.___				

Bottom capped (yes / no) with SST plate
Seals / Packers (yes / no) kind Bentonite depth 65' ft
Gravel packed (yes / no) from 70' ft to 104'10" ft
type 60 slot / 20 slot amount 2700 / 9000

Well developed? (yes / no)

Explain
(pumped / airlifted / bailed) for 24 hrs at 102 GPM.

Pump installed? (yes / no)

Date 07/20/11
Installer's name Cahoy Pump Service / Rodney Ray
Type of pump Goulds Depth to intake 91 ft
Pump diameter 6" Rated capacity 102' GPM

Water information

Aquifer: ☐ sand / gravel ☐ limestone ☒ sandstone
Main water-supply zone from 83' ft to 103' ft ☐ seepage well
Static water level 58' ft (below / above) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate
Pumping water level ____ ft below GL; ☐ tape ☐ airline ☐ E-line ☐ estimate
At yield of ____ GPM; ☐ orifice ☐ volumetric ☐ estimate
Measurements taken at ____ : ____ (AM / PM) Date ____ / ____ / ____

Water quality test? (yes / no)

Date tested 08/19/11
Tested by Keystone Laboratories

Contractor Cahoy Pump Service Inc.
Address 411 E. Main St. Fredericksburg, IA 50630
Driller Tony Thein Certification no. 8294

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