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

WELL RECORD

= 56721 Page 1

Permit No. _____

Site identification

Property Owner City of Calmar Well Number _____

Address Site: 603 W. North St., Calmar

Tenant _____

Well Depth 1180' ft Date completed 11 / 21 / 02

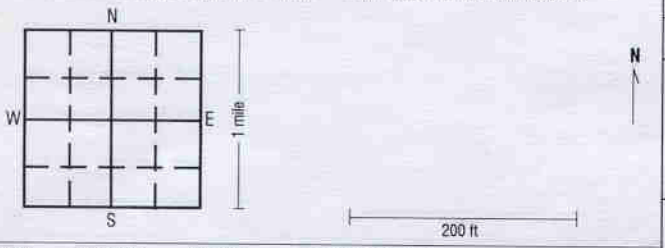
Location

County Winneshiek

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

____ 1/4 of the ____ 1/4 of the SE 1/4 of Sec 26 TWP 97 RNG 9 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'	34'	Brn		Clay
34'	60'	Blue		Clay
60'	67'	Wht		Blue Shale
67'	72'	Wht		Rock & Shale
72'	81'	Brn		Rock
81'	81½'	Brn		Clay & Rock
81½'	120'	Brn		Rock
120'	145'	Blue		Shale
145'	165'	Gray		Rock
165'	190'	Blue		Shale
190'	270'	Gray		Rock & Shale
270'	310'	Brn		Shale
310'	325'	Brn		Rock
325'	470'	Brn		Light
470'	480'	Gray		Rock
480'	580'	Brn		Light
580'	620'			Shale & rock

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 _____

Hole size

12¼"	inch from 0 ft	to 90' ft	17½"	inch from 85' ft	to 728' ft
23"	inch from 0 ft	to 85' ft	11¾"	inch from 728' ft	to 1180' 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)
18 5/8"	375 Steel	+.5	85'	85½'
12 3/4"	375 PVC	+1	728'	729'

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)
Bensead			14 Sacks

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
	0.___				
	0.___				

Bottom capped (yes / no) with _____

Seals / Packers (yes / no) kind _____ depth _____ ft

Gravel packed (yes / no) from _____ ft to _____ ft

type _____ amount _____

Well developed? (yes / no)

Explain 533 GPM @ 540'

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

Pump installed? (yes / no) Date ____ / ____ / ____

Installer's name _____

Type of pump _____ Depth to intake _____ ft

Pump diameter _____ Rated capacity _____ GPM

Water information

Aquifer: ☐ sand / gravel ☐ limestone ☒ sandstone

Main water-supply zone from _____ ft to _____ ft ☐ seepage well

Static water level 400' 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 ____ / ____ / ____

Tested by _____

Contractor Shawver Well Company, Inc.

Address Frederickburg, IA 50630

Driller Jim Bunting Certification no. 40121

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

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56721 Page 2

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Location

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Tenant _____

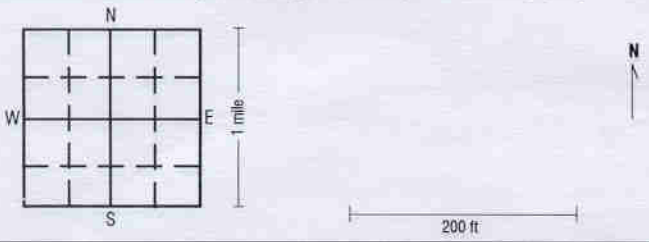
Well Depth 1180' ft Date completed 11 / 21 / 02

Location County Winneshiek

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_____ 1/4 of the _____ 1/4 of the SE 1/4 of Sec 26 TWP 97 RNG 9 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
690'	770'	White		Sandstone
770'	780'	Brwn		Light rock
780'	811'	Brwn		Rock & Streaks of white Sandstone
811'	958'	Brwn		Light rock
958'	1005'	Brwn		Light limerock Streaks of Sandstone
1005'	1016'	Unt		Sandstone
1016'	1043'	White		Limerock & Sand
1043'	1070'	White		Sandstone
1070'	1118'			Rock & sandstone
1118'	1140'	Gray		Rock
1140'	1180'	Gray		Rock Streaks of sandstone

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

_____ inch from 0 ft to _____ 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)

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)

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
	0.___				
	0.___				

Bottom capped (yes / no) with _____
Seals / Packers (yes / no) kind _____ depth _____ ft
Gravel packed (yes / no) from _____ ft to _____ ft
type _____ amount _____

Well developed? (yes / no)

Explain _____

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

Pump installed? (yes / no) Date ____ / ____ / ____

Installer's name _____

Type of pump _____ Depth to intake _____ ft

Pump diameter _____ Rated capacity _____ GPM

Water information Aquifer: ☐ sand / gravel ☐ limestone ☐ sandstone

Main water-supply zone from _____ ft to _____ ft ☐ seepage well

Static water level _____ 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 ____ / ____ / ____

Tested by _____

Contractor _____

Address _____

Driller _____ Certification no. _____

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