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

WELL RECORD

PAGE #1

40000 Permit No. _____

Site identification

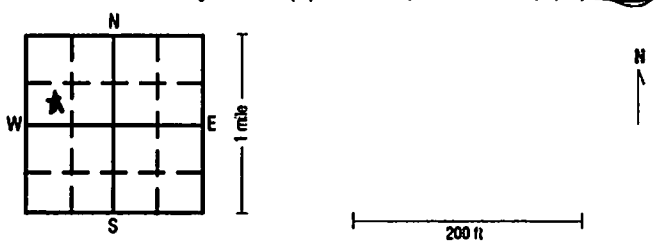
Property Owner City of Earlville Well Number _____
Address WHO Engineers, Russ Stammer
Tenant _____
Well Depth 1230 ft Date completed 11/29/99

Location

County Delaware

____ mi. N/S and ____ mi. E/W of intersection of _____ and _____
____ 1/4 of the SW 1/4 of the NW 1/4 of Sec 36 TWP 89 RNG 4 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'	7'	Brown		Clay
7'	23'			Sand
23'	24'			Gravel
24'	28'	Blue		Clay
28'	40'		Soft	Limerock
40'	118'			Limerock
118'	134'			Limerock
134'	169'			Limerock
169'	171'			Made Water
171'	260'	Gray		Rock
260'	410'			Shale
410'	445'	Brown		Shale
445'	650'			Limerock
650'	658'			Shale
658'	670'			Limerock
670'	685'			Shale
685'	735'			Limerock

use additional sheets as needed (cont.)

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

14 3/4 inch from 0 ft to 60 ft
17 1/2 inch from 57 ft to 258 ft

hole size continued

22 1/2 inch from 0 ft to 57 ft
15 inch from 258 ft to 840 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"				58'
16"				260'
10 3/4"				841.5'

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			594 sacks
Benseal			18 sacks
			81 sacks

Well screen? (yes / no) QuickJel

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 Air Lift: 500 GPM @ 1230', 500 GPM @ 800'
(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 325 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 Fredericksburg, IA 50630
Driller Jim Bunting Certification no. 4012

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

297971-DQ

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Site identification

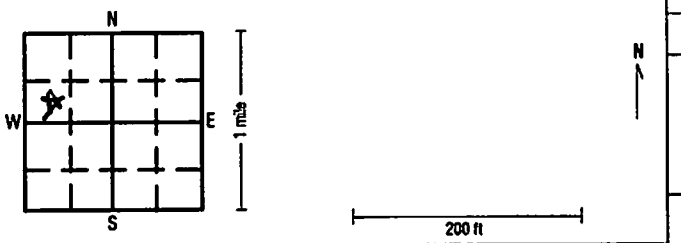
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____ 1/4 of the SW 1/4 of the NW 1/4 of Sec 36 TWP 89 RNG 4 E/W

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
735'	738'			Shale
738'	787'			Sandstone
787'	788'			Shale
788'	812'			Limerock
812'	818'			Sandstone
818'	842'			Limerock
842'	855'			Limerock
855'	870'	Red		Limerock
870'	885'			Limerock
885'	960'			Limerock
960'	1055'	White		Limerock
1055'	1120'			Hard Limerock
1120'	1121'			Made Water
1121'	1130'			Limerock
1130'	1133'			Sandstone
1133'	1170'			Limerock
1170'	1225'			Sandstone
1225'	1230'			Limerock

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

8 5/8 inch from 840 ft to 870 ft
8 1/2 inch from 870 ft to 1230 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
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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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