

Site Identification

Property Owner City of Garwin Well Number New Well
 Address Garwin, Iowa
 Tenant _____
 Well Depth 472 ft Date Completed 7, 10, 95

Drill method

rotary auger cable other _____

Hole size

16 inch from 0 ft to 200 ft
8 inch from 200 ft to 472 ft

hole size continued
 _____ inch from _____ ft to _____ ft
 _____ inch from _____ ft to _____ ft

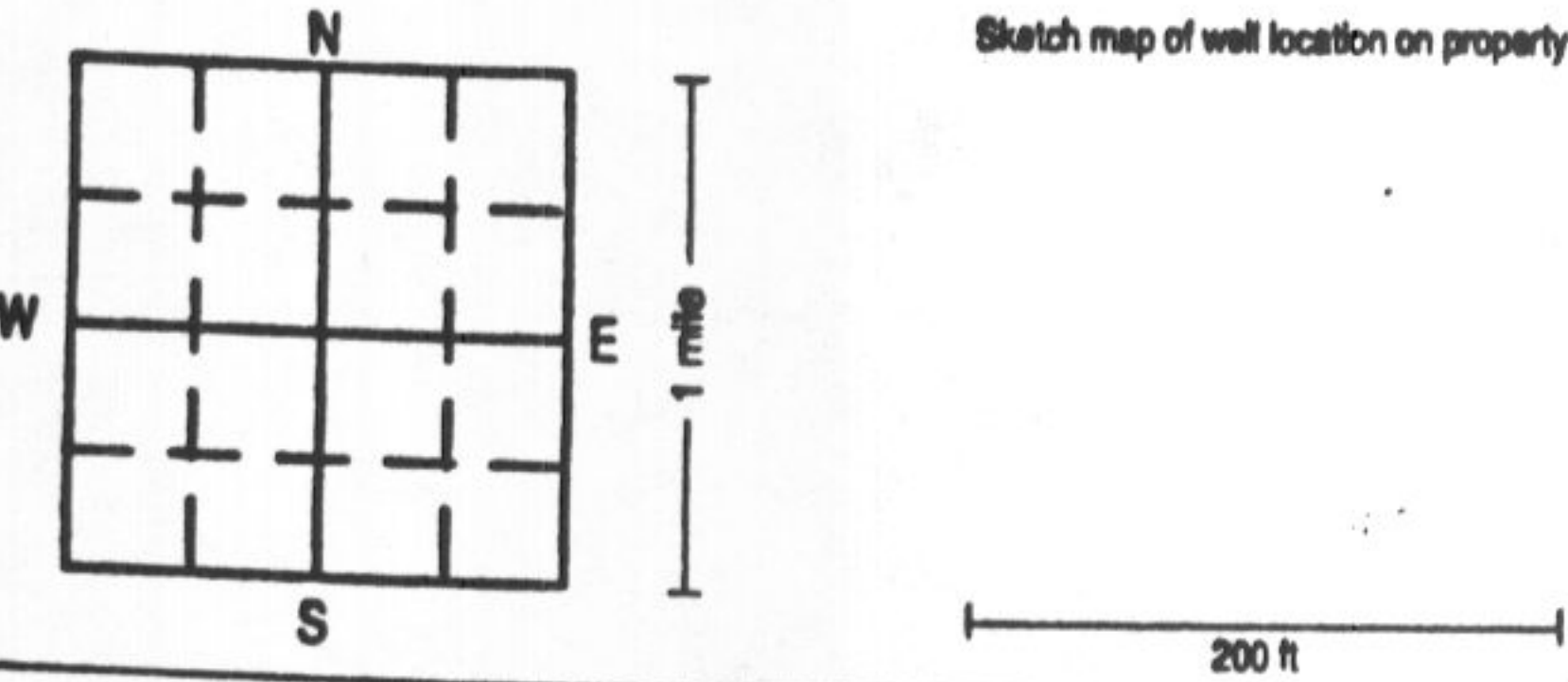
Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

Location

County TAMA

_____ mi. N and _____ mi. E 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 (•).



upland hillside valley Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	5			Topsoil
5	23			Clay, yellow, Sandy
23	32			Clay, grey, Soft
32	43			Clay, yellow, Sandy
43	60			Clay, grey
60	63			Clay, yellow
63	103			Clay, blue
103	145			Shale
145	161			Limestone, Soft
161	168			Limestone
168	178			Limestone
178	200			Limestone, shale streaks
200	245			Limestone
245	255			Shale gray
255	290			Limestone
290	293			Shale
293	312			Limestone
312	316			Shale
316	322			Limestone

use additional sheets as needed

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

D2

Well use

- Domestic Municipal Industrial
 Livestock Public Supply Monitoring
 Test Well Irrigation Other _____ (explain)

Casing

Drive shoe (yes/no) _____ Pitless adaptor (yes/no) _____

Size (ID/OD)	Type / WI	Depth top	Depth bottom	Amount (length)
12" O.D.		2'	200'	202'

Perforated or slotted casing? (yes/no)

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

Casing grouted? (yes/no)

Type	Depth Top	Depth Bottom	Amount
Neat cement	0'	200'	8 yds

Well screen? (yes/no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material

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 Surge pumping

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 200 ft to 472 ft
 Final water level (static water level) 60 ft (below/above) GL.
 Pumping water level 75 ft below GL; tape airline E-line
 At yield of 280 GPM; orifice volumetric estimate Date _____

Water quality test? (yes/no) _____

Date tested _____ / _____ / _____
 Tested by _____
 Test results _____

Contractor Layne-Western
 Address North Liberty, Iowa
 Driller Gary McCracken Certification no. 40285

WELL RECORD

Permit No. _____

Site Identification

Property Owner _____ Well Number _____

Address _____

Tenant _____

Well Depth _____ ft Date Completed ____/____/____

Drill method rotary auger cable other _____

Hole size
 _____ inch from _____ 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.

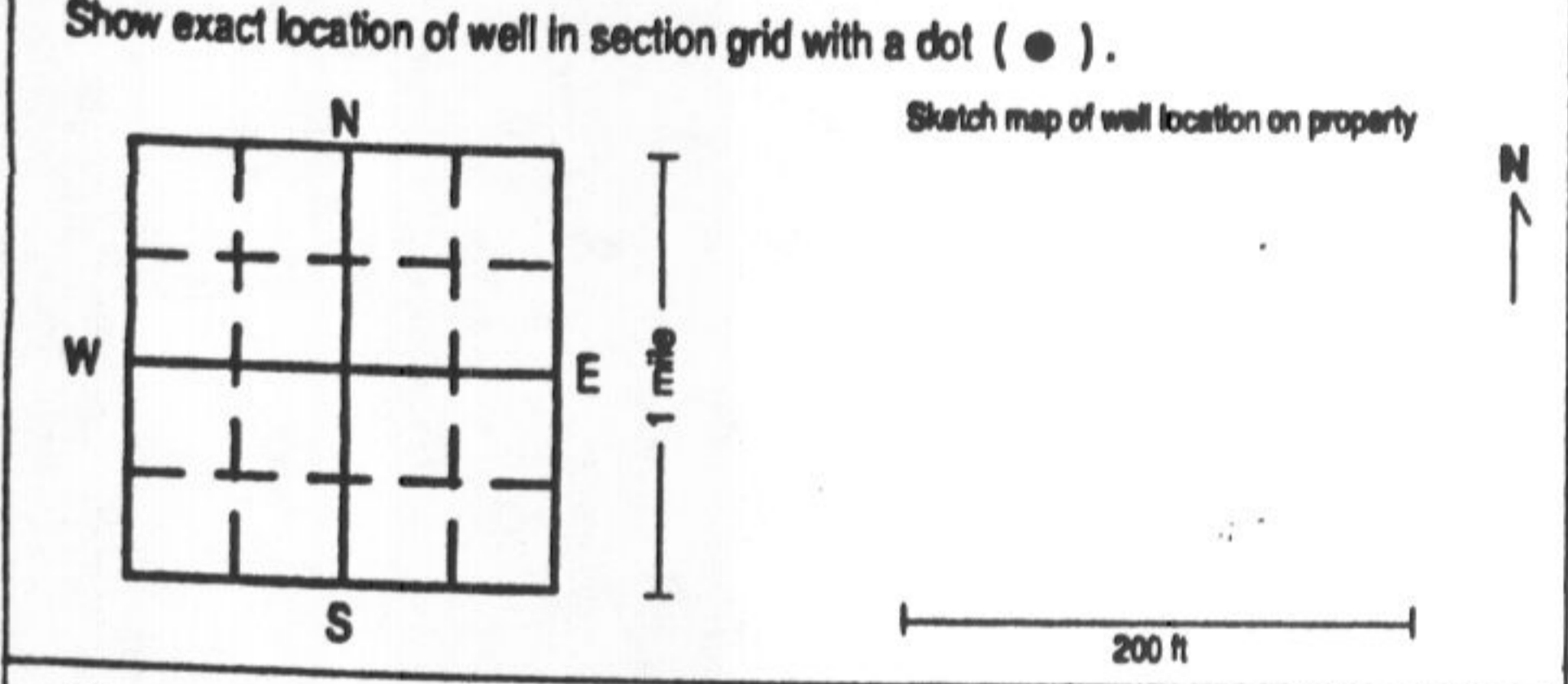
Location County _____

_____ 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

Casing Drive shoe (yes/no) _____ Pitless adaptor (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)

Type	Depth Top	Depth Bottom	Amount

upland hillside valley Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
322	325			Limestone, shale
325	350			Limestone
350	375			Limestone, shale
375	386			Shale
386	430			Limestone, HARD ROCK
430	441			Limestone, TAN
441	472			Limestone, grey

use additional sheets as needed

Well screen? (yes/no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material

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 _____

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

Final water level (static water level) _____ ft (below/above) GL.

Pumping water level _____ ft below GL; tape airline E-line

At yield of _____ GPM; orifice volumetric estimate Date _____

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

Water quality test? (yes/no) Date tested ____/____/____

Tested by _____

Test results _____

Well use

Domestic Municipal Industrial

Livestock Public Supply Monitoring

Test Well Irrigation Other _____ (explain)

Contractor _____

Address _____

Driller _____ Certification no. _____