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

WELL RECORD 57231

Permit No. 2001-315W

Site identification

Property Owner City of Primghar Well Number 8

Address 155 1st Street SW, Primghar, IA 51245

Tenant

Well Depth 600 ft Date completed 4/4/02

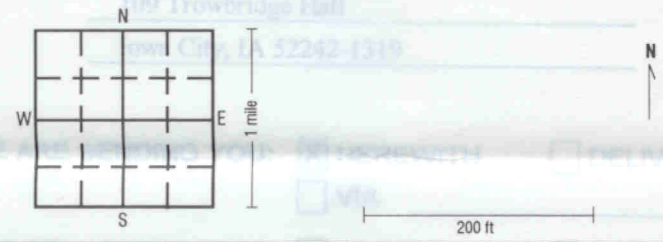
Location

County O'Brien

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

____ 1/4 of the ____ 1/4 of the SE 1/4 of Sec 36 TWP 96 RNG 41 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	35	Brown		Clay w/ cobbles
35	120	Gray		Clay
120	220	Gray		Clay (sticky)
220	310	Gray		Clay w/ cobbles
310	350	Gray		Till w/ cobbles
350	364	Gray		Clay w/ cobbles
364	372	Tan	Hard	Sandstone
372	384			Sand w/ gravel
384	465	Gray		Shale
465	480	Tan		Fine Sandstone
480	565	Tan		Fine Sandstone w/shale
565	572	Tan		Fine Sandstone
572	594	Tan		Fine sandstone w/shale
594	608			Sandstone w/ limestone
608	612			Gray limestone

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

24 inch from 0 ft to 612 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"	49.56	05	500	495'
Pitless		+1.5'	05	6.5'

Perforated or slotted casing? (yes (no))

Perforated / slotted from ____ ft to ____ ft

Perforated / slotted from ____ ft to ____ ft

Casing grouted? ((yes) no) Placement method Tremie

Type	Depth Top	Depth bottom	Amount (vol/wt)
Neat Cement	12'	180'	15 yd³
Bentonite	180'	307'	12 yd³

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
12"	0.030	500	600	100	S.S.
	0.___				

Bottom capped ((yes) no) with S.S. Plate

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

Gravel packed ((yes) no) from 307 ft to 600 ft

type NGC #0 amount 34 Ton

Well developed? ((yes) no)

Explain Surge + Bail

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

Pump installed? ((yes) no) Date 4/4/02

Installer's name Jim Kneifl

Type of pump Submersible Depth to intake 489 ft

Pump diameter 6" Rated capacity 400 GPM

Water information

Aquifer: ☐ sand / gravel ☐ limestone ☒ sandstone

Main water-supply zone from 500 ft to 600 ft ☐ seepage well

Static water level 339 ft ((below) above) GL; ☐ tape ☐ airline ☐ E-line ☐ estimate

Pumping water level 408 ft below GL; ☐ tape ☐ airline ☐ E-line ☐ estimate

At yield of 363 GPM; ☒ orifice ☐ volumetric ☐ estimate

Measurements taken at ____ : ____ (AM / PM) Date 4/4/02

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

Tested by Hygenic Lab

Contractor Layne-Western

Address 4601 North 252 St, Valley, NE 68064

Driller Correll Certification no. 40538

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

297971-DQ