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

WELL RECORD 59598

Permit No. 2003-578W

Site identification

Property Owner City of Whittemore Well Number 5

Address

Tenant

Well Depth 430 ft Date completed 5 / 1 / 04

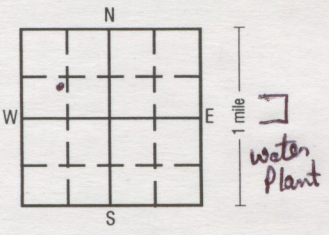
Location

County Kossuth

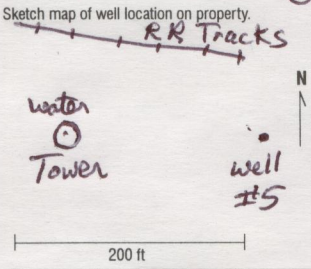
mi. N/S and mi. E/W of intersection of and

1/4 of the 1/4 of the 1/4 of Sec 8 TWP 95 RNG 30 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) 1200

Formation log

From	To	Color	Hardness	Formation description
0	18	yel	S	Clay
18	20	yel	S	Sand - Gravel
20	68	Gray	S	Clay
68	76	yel	S	Sand
76	93	Gray	S	Clay
93	115	yel	S	Sand
115	130	Red	M	Clay
130	140	Green	S	Clay
140	225	Clear	S	Sand (.030 sized)
225	230	White	S	Clay
230	255	White Tan	M	Dolomite
255	275	Red	S	Clay
275	305	Lt Gray	M	Rock
305	318	Tan	S	Dolomite
318	326	Tan	M	Dolomite (water)
326	361	Tan	M	Dolomite
361	363	Tan yel	S	Dolomite (sand) (water)
363	430	Tan	M	Dolomite

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

12¾ inch	from 0 ft	to 252 ft	6 inch	from 382 ft	to 430 ft
8 inch	from 252	to 382 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)
10	Steel .322	-1	5	6
8	steel .322	5	252	246 246
6	Steel Std	183	372	189

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)
Bentonite	0	252	19%

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 airlift until clean - (Install Pump & Pumped for 72+ hrs)

(pumped airlifted bailed) for 5 hrs at 250 GPM.

Pump installed? (yes) no) Date 5 / 10 / 04

Installer's name Bill Elbert

Type of pump Submersible Depth to intake 100 ft

Pump diameter 6" Rated capacity 160 GPM

Water information

Aquifer: ☐ sand / gravel ☒ limestone ☐ sandstone

Main water-supply zone from 399 ft to 430 ft ☐ seepage well

Static water level 44 ft (below / above) GL; ☒ tape ☐ airline ☐ E-line ☐ estimate

Pumping water level 61 ft below GL; ☐ tape ☒ airline ☐ E-line ☐ estimate

At yield of 250 GPM; ☐ orifice ☐ volumetric ☐ estimate

Measurements taken at 1 : 00 (AM / PM) Date 4 / 29 / 04

Water quality test? (yes) no) Date tested 7 / 13 / 04

Tested by Mangold Enviro

Contractor Elbert Bros Well Drilling Inc

Address 405 7th Whittemore 50598

Driller Rick W Elbert Certification no. 2335 40131

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