

Permit # 11795

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

WELL RECORD

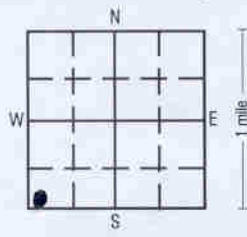
56400

Well # 2081572

Permit No. 33-02

Site identification
 Property Owner Charles Bieber Well Number _____
 Address 602 E. Main, Waukon
 Tenant _____
 Well Depth 500 ft Date completed 7/24/02

Location County Allamakee
 mi. N and mi. E of intersection of _____ and _____
 SW 1/4 of the SW 1/4 of the SW 1/4 of Sec. 28 TWP 98 RNG 5 E W



upland hillside valley Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0'	20'	Brown		Topsoil, Clay
20'	31'			Limerock, Clay
31'	54'			Limerock
54'	134'			Shale, Rock
134'	234'			Sandstone
234'	270'	Brown		Shale
270'	324'		soft	Limerock
324'	354'	Gray		Rock
354'	377'	Brown		Limerock
377'	480'	Brown		Limerock, Sandstone
				Streaks
480'	500'			Sandstone

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
 12 1/4 inch from 0 ft to 37 ft hole size continued
 5 inch from 377 ft to 500 ft
 8 3/4 inch from 37 ft to 377 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 adaptor (yes/no) _____

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
5 7/8	steel	+2'	377'	379'

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	0'	377'	131 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 _____
 (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 254 ft (below/above) GL; tape airline E-line estimate
 Pumping water level 360 ft below GL; tape airline E-line estimate
 At yield of 15 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 Gary Martin Certification no. 40473