

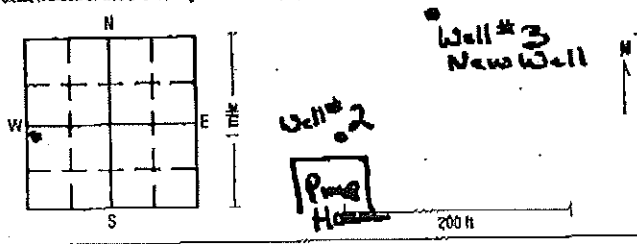
WELL RECORD

Permit No. _____

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

Site identification
 Property Owner City of Albert City Well Number #3
 Address Main St Albert City, IA
 Tenant None
 Well Depth 186 ft Ground Level Date completed 4/10/02

Location County Buena Vista
1/2 mi. Q and 300' Q of intersection of C29 and 197
NW 1/4 of the NW 1/4 of the SW 1/4 of Sec 14 TWP 92 RNG 35 W



upland hillside valley Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	2			Topsoil
2	16			Yellow Clay
16	80			Blue Clay
80	100			Rocky Blue Clay
100	125			Seamed Clay
125	140			Gravel & Clay
140	164			Clay & Gravel
164	175			Finer Sand
175	186			Course Gravel

Remarks (including depth of lost drilling fluids, materials, or tools)
 use additional sheets as needed

Well use
 Domestic Municipal Commercial
 Livestock Public supply Monitoring
 Test well Irrigation Other _____ (explain)

Drift method rotary auger cable other _____
Hole size
16 inch from 0 ft to 188 ft
 _____ inch from _____ ft to _____ ft

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

Casing Drive shoes (yes) Press adapter (yes)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
8"	PW/200	187	171	172-6

Perforated or slotted casing? (yes)
 Perforated / slotted from _____ ft to _____ ft
 Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes) Placement method Trimmc

Type	Depth Top	Depth bottom	Amount (vol/wt)
Bentonite	6'	160'	1085 gallons

Well screen? (yes)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
8"	0.030	171	176	5	Stainless Steel
8"	0.060	176	186	10	"

Bottom capped (yes) with Plate Bottom
 Seals / Packers (yes) Kind _____ depth _____ ft
 Gravel packed (yes) from 160 ft to 188 ft
 type #20 Red Flint amount 3000#

Well developed? (yes)
 Explain Air lifted & Jetted
 (pumped, airlifted, balled) for 3 hrs at 300 GPM.

Pump installed? (yes) Date 4/10/02
 Installer's name Truesdell Pump Service
 Type of pump Submersible Depth to intake 93 ft
 Pump diameter 6" Rated capacity 196 GPM
93' of Air Line

Water Information Aquifer: sand / gravel limestone sandstone
 Main water-supply zone from 171 ft to 186 ft seepage well
 Static water level 36'-6" ft (below / above) GL; tape airline line estimate
 Pumping water level 42'-3" ft below GL; tape airline line estimate
 At yield of 275 GPM; orifice volumetric estimate
 Measurements taken at 3:15 (AM PM) Date 4/2/02

Water quality test? (yes) Date tested 4/2/02
 Tested by Mangold Environmental Testing

Contractor Middendorff Well Co Inc.
 Address Sioux Rapids IA
 Driller Mike Strand Certification no. 40631