



Water-Data Report 2007

**413255095070401 Local number 78-37-17 DDDD**

Lower Cretaceous aquifers  
Dakota Group  
Shelby County, IA

LOCATION.--Lat 41°32'55", long 95°07'04" referenced to North American Datum of 1927, in SE ¼ SE ¼ SE ¼ sec.17, T.78 N., R.37 W., Shelby County, IA, Hydrologic Unit 10240003, 3 mi south and 3 mi west of the Town of Elkhorn, on the east side of County Highway M56 near Elkhorn Creek.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Depth 181 ft. Upper casing diameter 2 in, top of first opening 121 ft, bottom of last opening 139 ft. Drilled observation artesian water well, screened 121-139 ft, gravel-packed.

DATUM.--Land-surface datum is 1,208 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 2.80 ft above land-surface datum, August 9, 1981 to present. Land-surface datum from topographic map.

PERIOD OF RECORD.--August 1981 to September 2004; June 2006 to September 2006; August 2007 to September 2007.

GAGE.--Measurement with chalked tape by USGS personnel.

REMARKS.--Well WC-16.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.60 ft below land-surface datum, August 11, 1993; lowest measured, 44.06 ft below land-surface datum, November 20, 2002.

**WATER LEVELS IN FEET BELOW LAND SURFACE DATUM  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

[Measurement method: S, steel tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water level status	Date	Water level	Measure-ment method	Water level status
Aug 22	41.24	S	--	Sep 25	41.85	S	--

Water year 2007 highest: 41.24 Aug 22, 2007; lowest: 41.85 Sep 25, 2007