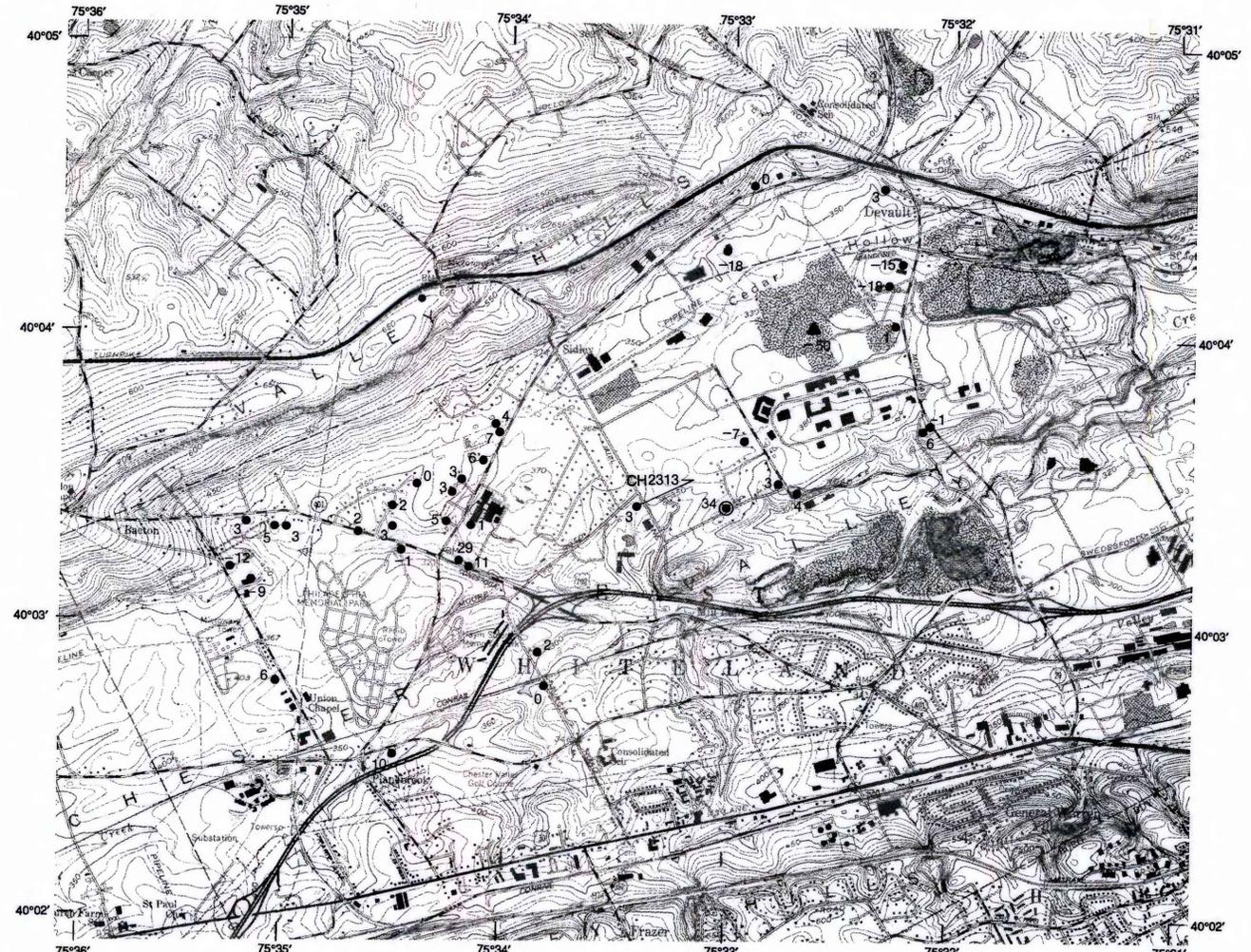


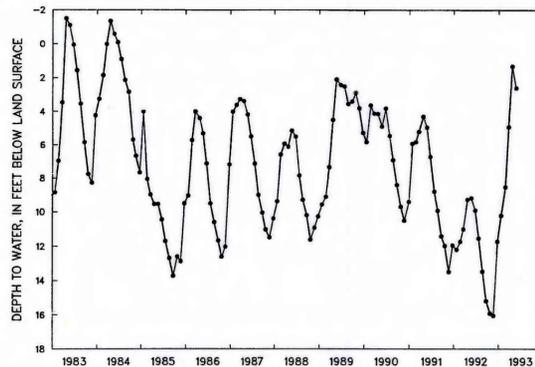
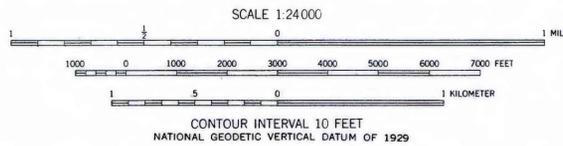
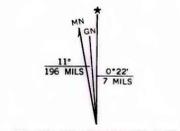
Base from U.S. Geological Survey Malvern 1:24,000 1983



Base from U.S. Geological Survey Malvern 1:24,000 1983

ALTITUDE AND CONFIGURATION OF THE POTENTIOMETRIC SURFACE, MAY AND JUNE 1993

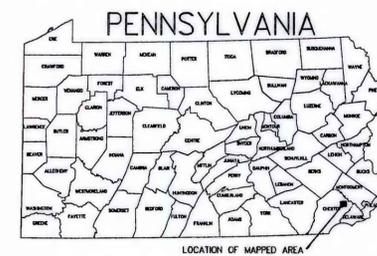
- EXPLANATION**
- 320 — POTENTIOMETRIC CONTOUR--Shows altitude of potentiometric surface as defined by measured water levels. Dashed where approximately located. Contour interval is every 20 feet below 300 feet and every 10 feet above 300 feet. Altitude in feet above National Geodetic Vertical Datum of 1929.
 - 307 Altitude of static water level measured in drilled well.
 - 413F Altitude of land surface at site of well from which water was flowing in June 1993.
 - 332 Altitude of water level that was measured in a pumping drilled well.
 - ▲ 150 Reported elevation of quarry sump.
- SITE USED FOR WATER-LEVEL MEASUREMENT**--Symbol gives location of site. Number is altitude of water level in feet above National Geodetic Vertical Datum of 1929. Water level given to nearest tenth of a foot is based on elevation of measuring point surveyed in 1992; water level given to the nearest foot is based on the elevation of measuring point estimated from the 1:24,000 topographic map.



Hydrograph of observation well CH-2313 showing mid-month water levels, January 1983 to May 1993.

CHANGE IN WATER LEVEL, 1983-93

- EXPLANATION**
- 3 SITE USED FOR WATER-LEVEL MEASUREMENT--Symbol gives location of site. Number is change in water level between October 1983 and May-June 1993. A - sign means a decrease in water level. Water levels for 1983 taken from Sloto, R.A., 1987, Effect of Urbanization on the Water Resources of Eastern Chester County, Pennsylvania: U.S. Geological Survey Water-Resources Investigations Report 87-4098, Plate 2.
 - 34 Change in water level in well in use in 1983 and abandoned in 1993.
 - ▲ -50 Change in reported elevation of quarry sump 1983-1993.



ALTITUDE AND CONFIGURATION OF THE POTENTIOMETRIC SURFACE, MAY AND JUNE 1993, AND CHANGE IN WATER LEVEL 1983-93, IN THE CARBONATE ROCKS IN PART OF EAST WHITELAND AND CHARLESTOWN TOWNSHIPS, CHESTER COUNTY, PENNSYLVANIA

By
B. Craig McManus and Ronald A. Sloto
1994