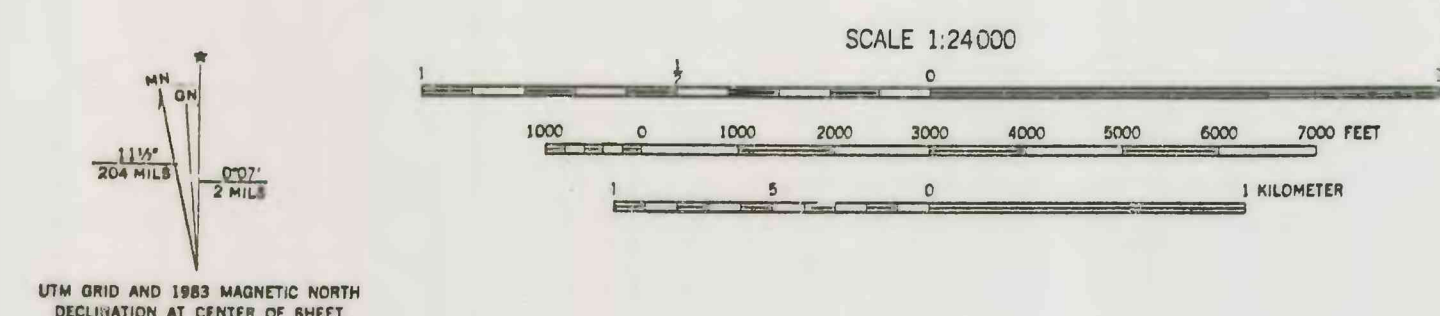


Base from U.S. Geological Survey  
Hellsbottom 1:24,000 1972 Contour interval 10 feet;  
Quakertown 1:24,000 1972 Contour interval 20 feet;  
Allentown East 1:24,000 1983 Contour interval 10 feet;  
Bedminster 1:24,000 1983 Contour interval 20 feet;  
Mifflin Square 1:24,000 1973 Contour interval 20 feet;  
Riegelsville 1:24,000 1973 Contour interval 20 feet;  
NATIONAL GEODETIC VERICAL DATUM OF 1929



ALTITUDE AND CONFIGURATION OF THE POTENTIOMETRIC SURFACE  
IN SPRINGFIELD TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA,  
APRIL 1991 THROUGH OCTOBER 1991

By Curtis L. Schreffler

1993

EXPLANATION

— TOWNSHIP AND STUDY AREA BOUNDARY

— 300 — POTENTIOMETRIC CONTOUR—Shows altitude of potentiometric surface as defined by measured water levels, altitudes of streams and springs, and topography. Dashed where approximately located. Intermittent streams are discharge areas during periods of high ground-water levels. Contoured potentiometric surface represents the water table except at wells that are completed in semiconfined zones in the aquifer. Contour interval is 20 feet except north of Springfield, where the contour interval is 20 feet up to an altitude 400 feet and then 50 feet to an altitude 800 feet. Buckwampum Hill and The Lookout areas were not contoured above 700 feet due to lack of data. Bits Hill and the tops of two hills west of Buckwampum Hill were not contoured above 420 and 440 feet due to lack of data. Altitude in feet above National Geodetic Vertical Datum of 1929.

WATER-LEVEL MEASUREMENT SITE—Symbol gives location of site. Number is altitude of water level in feet above National Geodetic Vertical Datum of 1929. Wells and springs outside the study area are shown where they were used to contour the potentiometric surface.

• 393 Altitude of static water level measured in drilled or dug well. Month and year of water-level observation in parenthesis (3/91) if reported for a period other than April through October 1991.

• 530 F Elevation of land surface at site of well that was flowing during April through October 1991.

• 660 Elevation of spring that was flowing during April through October 1991.

▲ 630 Altitude of static water level that represents a potentiometric surface other than the water table. Measuring points include wells that may penetrate a deeper semiconfined zone, and data may reflect a composite head. These data were not used to contour the potentiometric surface and are included for information only.

The difference between the minimum and maximum depth to water for monthly measurements at three observation wells in Springfield and nearby Durham Townships was 2.43 to 26.96 feet (median was 17.25 feet) during April through October 1991.

The mapped area is underlain by layered sedimentary rocks chiefly consisting of shale, mudstone, and siltstone and by a diabase sheet that has intruded the sedimentary rocks. Also, a small part of the mapped area is underlain by dolomite and crystalline rocks.

