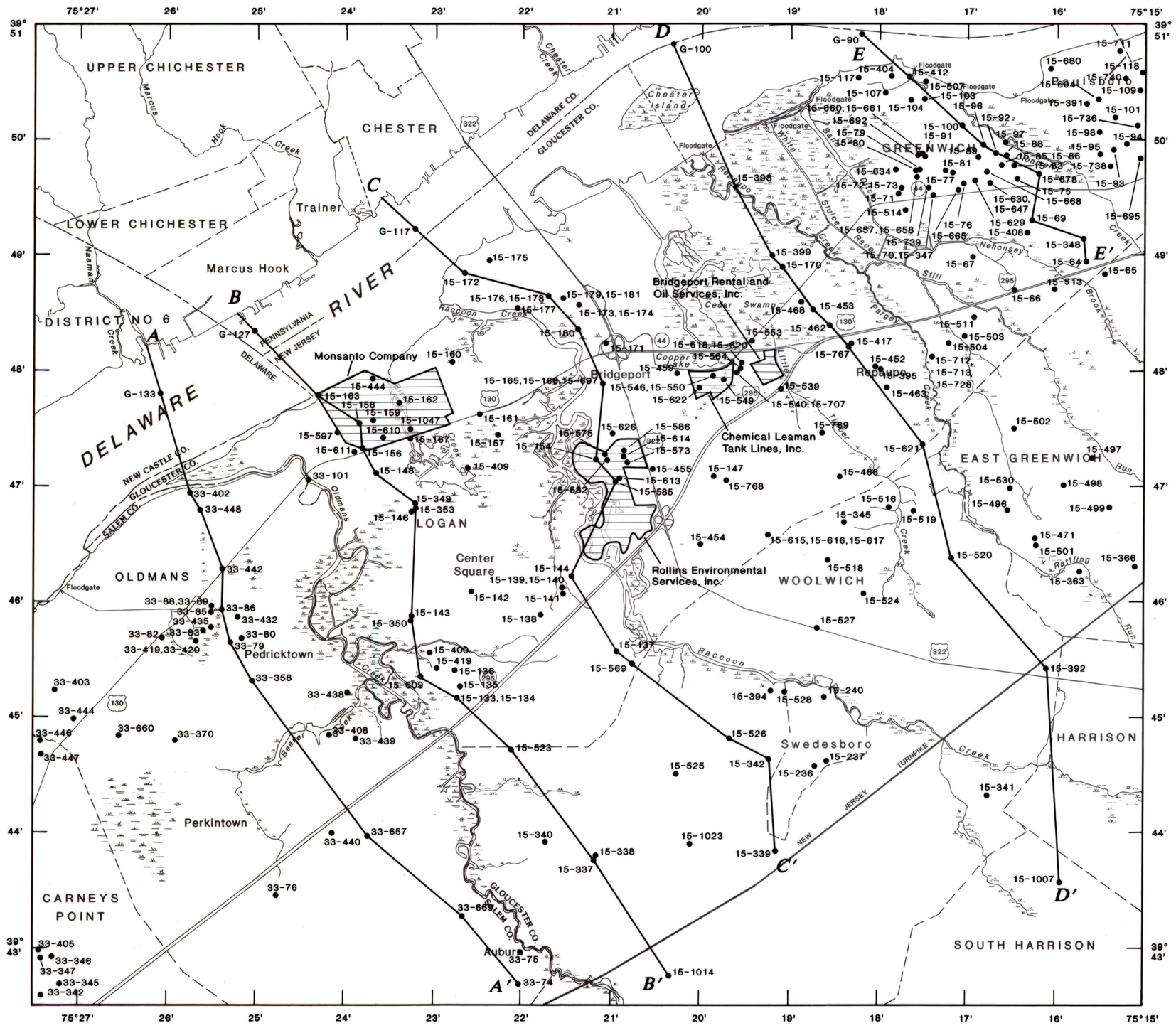
U.S. DEPARTMENT OF INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the
TOWNSHIP OF LOGAN, GLOUCESTER COUNTY, NEW JERSEY

WATER-RESOURCES INVESTIGATIONS REPORT 90-4142
PLATE 1



Base from U.S. Geological Survey, 1:24,000 quadrangles, Bridgeport, 1967; Marcus Hook, 1967; Penns Grove, 1967; Woodstown, 1967

EXPLANATION

LOCATION OF INDUSTRIES IN LOGAN TOWNSHIP FOR WHICH DOCUMENTED HISTORIES OF GROUND-WATER CONTAMINATION EXIST--Shaded areas are delineated by property boundaries.

A——A′ TRACE OF HYDROGEOLOGIC SECTION.

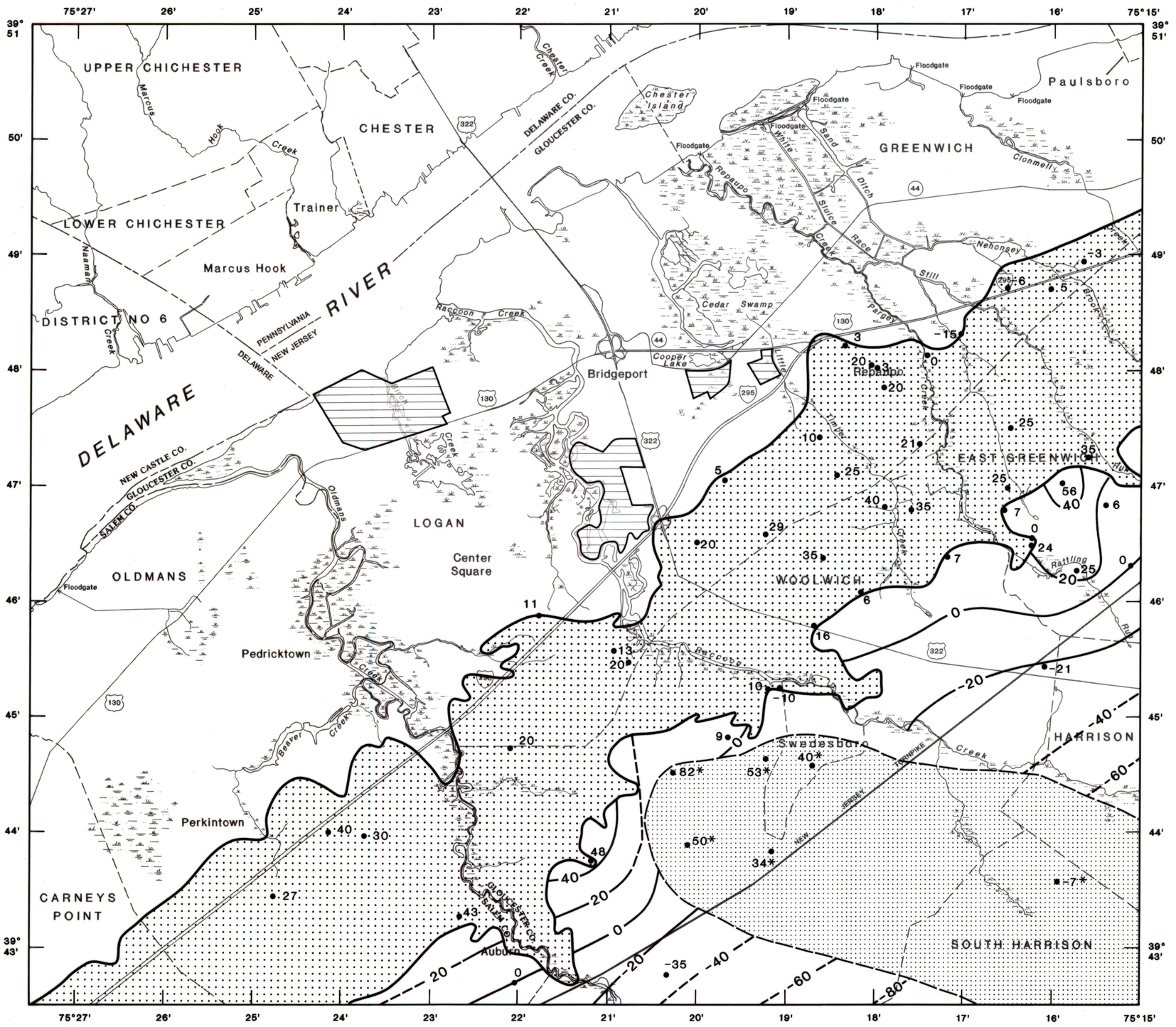
●15-67 WELL LOCATION--Number is U.S. Geological Survey well number (see table 2).

● G-90 LOCATION WITH MARINE SEISMIC REFLECTION AND ELECTROMAGNETIC CONDUCTIVITY DATA--Duran, 1986.

SCALE 1:48,000

1 1/2 0 1 MILE
1 .5 0 1 KILOMETER

1a. LOCATION OF WELLS, TRACES OF HYDROGEOLOGIC SECTIONS, AND GEOPHYSICAL TRAVERSES USED TO ASSESS THE HYDROGEOLOGY IN THE LOGAN TOWNSHIP REGION, NEW JERSEY.



Base from U.S. Geological Survey, 1:24,000 quadrangles, Bridgeport, 1967; Marcus Hook, 1967; Penns Grove, 1967; Woodstown, 1967

EXPLANATION

OUTCROP AREA OF THE MERCHANTVILLE-WOODBURY CONFINING UNIT--Represents area in which unit is exposed at land surface or is overlain by upper Cenozoic deposits.

AREA IN WHICH MERCHANTVILLE-WOODBURY CONFINING UNIT, THE ENGLISHTOWN AQUIFER SYSTEM, AND THE MARSHALLTOWN-WENONAH CONFINING UNIT ARE UNDIFFERENTIATED.

LOCATION OF INDUSTRIES IN LOGAN TOWNSHIP FOR WHICH DOCUMENTED HISTORIES OF GROUND-WATER CONTAMINATION EXIST--Shaded areas are delineated by property boundaries.

——-20—— TOP-OF-CONFINING-UNIT CONTOUR--Shows altitude of the top of the Merchantville-Woodbury confining unit, in feet above or below sea level datum. Dashed where approximately located. In areas where no data are available, contours are based on regional trends (Zapecza, 1989). Contour interval is 20 feet.

● 35 WELL LOCATION--Number is altitude of the top of the Merchantville-Woodbury confining unit in feet above or below sea level.

● 53 * WELL LOCATION WITHIN THE AREA IN WHICH THE MERCHANTVILLE-WOODBURY CONFINING UNIT, THE ENGLISHTOWN AQUIFER SYSTEM, AND THE MARSHALLTOWN-WENONAH CONFINING UNIT ARE UNDIFFERENTIATED--Number is altitude of the top surface of the combined confining unit, in feet above or below sea level.

SCALE 1:48,000

1 1/2 0 1 MILE
1 .5 0 1 KILOMETER

Hydrogeology by J.C. Lewis, F.J. Spitz, Cynthia Barton, and Jane Kozinski

1b. ALTITUDE OF THE TOP OF THE MERCHANTVILLE-WOODBURY CONFINING UNIT IN THE LOGAN TOWNSHIP REGION, NEW JERSEY.