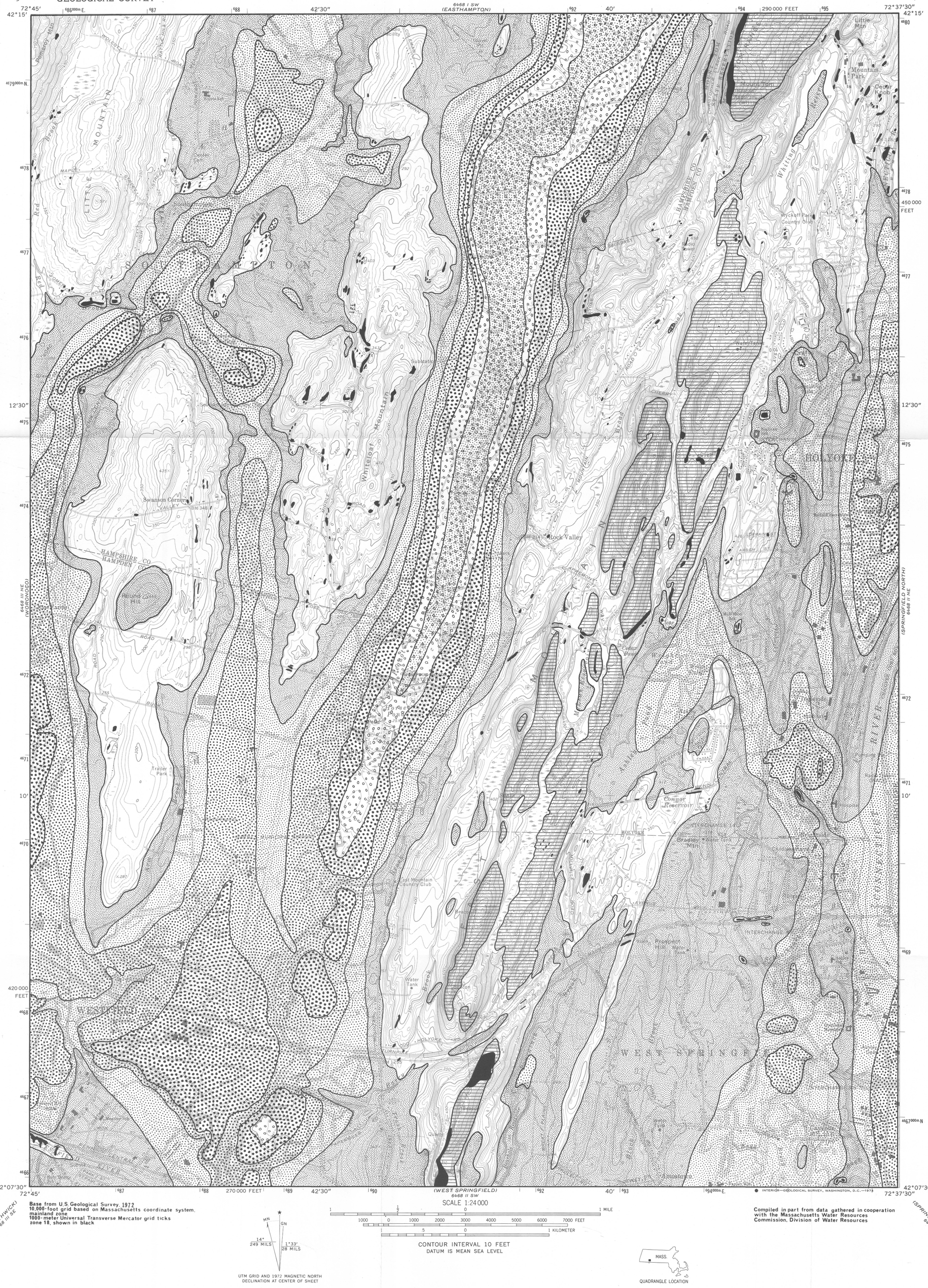
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-504 C



Base from U.S. Geological Survey, 1972
10,000-foot grid based on Massachusetts coordinate system, mainland zone
1000-meter Universal Transverse Mercator grid ticks zone 18, shown in black

SCALE 1:24000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

MN GN
14° 249 MILS
1°33′ 28 MILS

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

MASS.
QUADRANGLE LOCATION

Compiled in part from data gathered in cooperation with the Massachusetts Water Resources Commission, Division of Water Resources

● INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1976

MAP SHOWING DEPTH TO BEDROCK, MOUNT TOM QUADRANGLE, MASSACHUSETTS

By
Clark J. Londquist and Fred D. Larsen

1976

EXPLANATION

Map units indicate ranges in depth to bedrock (ledge) below land surface. The locations of bedrock outcrops and areas of numerous closely spaced bedrock outcrops were obtained from the surficial geologic map (Larsen, 1972). The areal distribution of the map unit 0-10 feet (0-3 metres) to bedrock is based on interpretation of the geologic map supplemented by data from logs of wells and test holes (Petersen and Maevsky, 1962) and geophysical studies (Weston Geophysical Engineers, 1966). The areal distribution of greater depths to bedrock is based almost entirely on subsurface data and the published bedrock contour map (Londquist, 1973).

Depths shown are a generalization of localized highly variable conditions and do not include any weathered (decomposed) bedrock. Therefore this map should not be used as a substitute for detailed site evaluation.

Depth to Bedrock, In feet (metres)

Bedrock outcrop
(Ledge exposed at land surface)

Numerous closely spaced bedrock outcrops separated by small area of less than 10 feet (3 metres) to bedrock.

0-10 (0-3)

10-50 (3-15)

50-100 (15-30)

100 -150 (30-46)

150-200 (46-61)

200-250 (61-76)

Greater than 250 (76)

REFERENCES

Larsen, F.D., 1972, Surficial geologic map of the Mount Tom quadrangle, Massachusetts: U.S. Geol. Survey open-file report.

Londquist, C.J., 1973, Contour map of the bedrock surface, Mount Tom quadrangle, Massachusetts: U.S. Geol. Survey Misc. Field Studies Map MF-504 A.

Petersen, R.G., and Maevsky, Anthony, 1962, Massachusetts basic-data report no. 6, ground-water series, Western Massachusetts area: U.S. Geol. Survey open-file report, 31 p.

Weston Geophysical Engineers, 1966, Seismic survey Connecticut River Valley for Massachusetts Water Resources Commission: Weston, Mass., Weston Geophys. Eng. Inc., 6 p. maps and graphs.