UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MF-540 B

Base from U.S. Geological Survey 1967
10,000-foot grid based on Connecticut coordinate system
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in black

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

UTM GRID AND 1967 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

QUADRANGLE LOCATION

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1970

Compiled in part from data gathered in cooperation with the Connecticut Department of Environmental Protection

MAP SHOWING DEPTH TO BEDROCK, MOUNT CARMEL QUADRANGLE, CONNECTICUT

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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 (Flint, 1962) and bedrock geologic map (Fritts, 1963). Depths to bedrock are inferred from logs of wells and test holes (La Sala, 1968; Mazzaferro, 1973) supplemented by data from the contour map of the bedrock surface (Haeni, 1974).

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)

0-10 (0-3)
Numerous closely spaced bedrock outcrops separated by small areas of less than 10 feet (3 metres) to bedrock.

0-50 (0-15)
Does not include areas of bedrock outcrop

50-100 (15-30)

100-150 (30-46)

150-200 (46-61)

REFERENCES

Flint, R.F., 1962, Surficial geology of the Mount Carmel quadrangle: Connecticut Geol. Nat. History Survey Quad. Rept. 12, 25 p.

Fritts, C.E., 1963, Bedrock geology of the Mount Carmel quadrangle; Connecticut: U.S. Geol. Survey Geol. Quad. Map GQ-199.

Haeni, F.P., 1974, Contour map of the bedrock surface, Mount Carmel quadrangle, Connecticut: U.S. Geol. Survey Misc. Field Studies Map MF-540 A.

La Sala, A.M., Jr., 1968, Ground-water resources of the Hamden-Wallingford area, Connecticut: Connecticut Water Resources Bull. 14, 18 p.

Mazzaferro, D.L., 1973, Hydrogeologic data for the Quinnipiac River basin, Connecticut: Connecticut Water Resources Bull. 26, 54 p.