

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



EXPLANATION

Map units indicate ranges in depth to bedrock (ledge) below land surface. The locations of bedrock outcrops were obtained from the bedrock geology map (Lundgren, 1967) and unpublished surficial geology maps. Depths to bedrock are inferred from logs of wells and test holes (Brown, 1925 and Cervione and others, 1968) and data from continuous seismic profiles under the Connecticut River (Haeni, 1971) supplemented by data from the contour map of the bedrock surface (Meade and Melvin, 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.

-  Bedrock outcrop
(Ledge exposed at land surface)
-  Numerous closely spaced bedrock outcrops separated by small areas of less than 10 feet (3 meters) to bedrock.

DEPTH TO BEDROCK, In feet (meters)

-  Less than 10 (3)
-  10-50 (3-15)
-  50-100 (15-30)
-  100-150 (30-46)
-  150-200 (46-61)

REFERENCES

Brown, J.S., 1925, A study of coastal ground water, with special reference to Connecticut: U.S. Geol. Survey Water-Supply Paper 537, 101p.

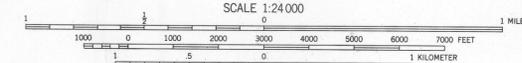
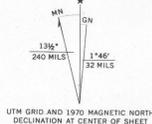
Cervione, M.A., Jr., Grossman, I.G., and Thomas, C.E., Jr., 1968, Hydrogeologic data for the lower Thames and southeastern coastal river basins, Connecticut: Connecticut Water Resources Bull. 16, 65p.

Haeni, F.P., 1971, Continuous seismic profiling on the lower Connecticut River (thesis): Middletown, Conn., Wesleyan Univ., 62p.

Lundgren, Lawrence, Jr., 1967, The bedrock geology of the Old Lyme quadrangle: Connecticut Geol. Nat. History Survey Quad. Rept. 21, 30p.

Meade, D.B., and Melvin, R.L., 1974, Contour map of the bedrock surface, Old Lyme quadrangle, Connecticut: U.S. Geol. Survey Misc. Field Studies Map MF-558 A.

Base from U.S. Geological Survey 1950
Photorevision as of 1970
10,000-foot grid based on Connecticut coordinate system
1000-meter Universal Transverse Mercator grid ticks,
zone 18, shown in black



CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER

MAP SHOWING DEPTH TO BEDROCK,
OLD LYME QUADRANGLE,
CONNECTICUT

By
Daniel B. Meade
1974

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