

EXPLANATION

Dark-toned areas on the topographic base map indicate surface exposures of bedrock formations; elsewhere bedrock is mantled by unconsolidated glacial deposits ranging from a few inches to an estimated maximum of 100 feet in thickness

Structural symbols for faults, joints, inclined beds, vesicular zones, foliation, and columnar jointing may be combined radially at the locality of observation

Actual thickness of sedimentary rock units encountered in drilling may differ significantly from estimates given below because of unknown faults



Portland Arkose

Pale-reddish-brown to light-brown micaceous, feldspathic to arkosic lenses of interlayered strata ranging from soft, weak, silty sandstone to resistant very coarse conglomerate. Individual beds massive to thick bedded; some current cross-bedding; sets of similar beds range from several feet to at least 50 feet thick. No significant weathering effects observed.



Hampden Basalt

Dark- to very dark-gray or greenish-gray hard strong tough fine- to medium-grained basalt, in part prismatic jointed, in part massive with broad, three-dimensionally curved joints or large planar joints that yield blocks a few to several yards across, in part broken into small irregular fragments by many fine fractures; joints generally open less than 2 inches; weathers yellowish brown.



East Berlin Formation

Pale-reddish-brown micaceous, feldspathic to arkosic interbedded silty sandstone interbedded with medium- to coarse-grained sandstone, with some gravelly sandstone to conglomerate, mainly in upper part; individual beds massive to thin bedded; some current cross-bedding; sets of similar beds from 5 to 15 feet thick; no significant weathering effects observed.



Holyoke Basalt

Dark- to very dark-gray or greenish-gray hard strong tough fine- to medium-grained basalt, in part prismatic jointed, in part massive with large, crude columnar joints and some large planar joints; most joints open less than 3 inches, principal joints may be open as much as 6 inches; weathers yellowish brown.

Shuttle Meadow Formation
Pale-reddish-brown micaceous, feldspathic to arkosic interbedded soft weak siltstone and silty shale; individual strata of silty shale from 0.1 inch to a few inches thick; siltstone beds massive to thin bedded; some current cross-bedding. Principal joints spaced a few to several feet apart, generally closed. No significant weathering effects observed.



Talcott Basalt (?)

Basalt(?); not exposed in quadrangle; known only in well logs reported by owners. In adjacent quadrangles is dark- to very dark-gray, hard strong tough fine-grained basalt. Thickness unknown, but inferred to be about 150 feet



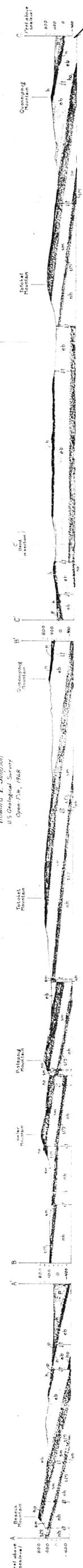
Pre-Triassic rocks

Chiefly very fine-grained medium-gray faintly schistose, moderately well laminated metasedimentary biotite-feldspar-quartz gneiss locally exposed in a fault block west of, and adjacent to, the eastern boundary of the Triassic Lowland.

Geological symbols legend including Contact, Fault, Lineament, Drill hole, Strike and dip of beds, Basalt dike, and Vesicular zone in basalt.

Cross-sections to accompany the Preliminary Bedrock Geologic Map of part of DURHAM QUADRANGLE, CONNECTICUT

Howard F. Simpson
U.S. Geological Survey
Open-File, 1968



Note: Either symbols are those of the same explanation without the prefix 'A'. The symbol 'nh' refers to New Haven Arkose, also of Triassic age, which underlies the Talcott Basalt regionally.

These cross sections are preliminary and have not been edited or reviewed for conformity with U.S. Geological Survey standards. Connecticut (Durham quad). Geol. 1:24,000. 1968. sheet 2, cop. 1.

Note: For a geologic map (scale 1:24,000) of unconsolidated deposits of Durham quadrangle, see Simpson, H. E., 1968, Surficial geology of the Durham quadrangle, Middlesex and New Haven Counties, Connecticut: U. S. Geol. Survey Quad. Map GQ-756

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