

# Colchester Rodgers Bedrock Compilation Sheet (paper)

Map

## NOTICE !

Bedrock quadrangle 1:24,000 scale compilation sheets for the Bedrock Geological Map of Connecticut, John Rodgers, 1985, Connecticut Geological and Natural History Survey, Department of Environmental Protection, Hartford, Connecticut, in Cooperation with the U.S. Geological Survey, 1:125,000 scale, 2 sheets. [minimum 116 paper quad compilations with mylar overlays constituting the master file set for geologic lines and units compiled to the State map, some quads have multiple sheets depicting iterations of mapping]. Compilations drafted by Nancy Davis, Craig Dietsch, and Nat Gibbons under the direction of John Rodgers.

Geologic unit designation table translates earlier map unit nomenclature to the units ultimately used in the State publication.

This map set contains unpublished maps, cross-sections, and related information archived by the State Geological and Natural History Survey of Connecticut as part of the Survey Library Collection.

These materials have not been reviewed for accuracy, consistency, or completeness. For many geographic areas, more current information exists, either in published or unpublished form. These materials were developed under research and mapping agreements between the State Geological Survey and individual scientists, academic institutions, or graduate students. The veracity of the information contained within these documents is the responsibility of the authorship. The State Geological and Natural History Survey of Connecticut, does not promote or endorse this content, nor does the State Survey attest as to its level of accuracy.

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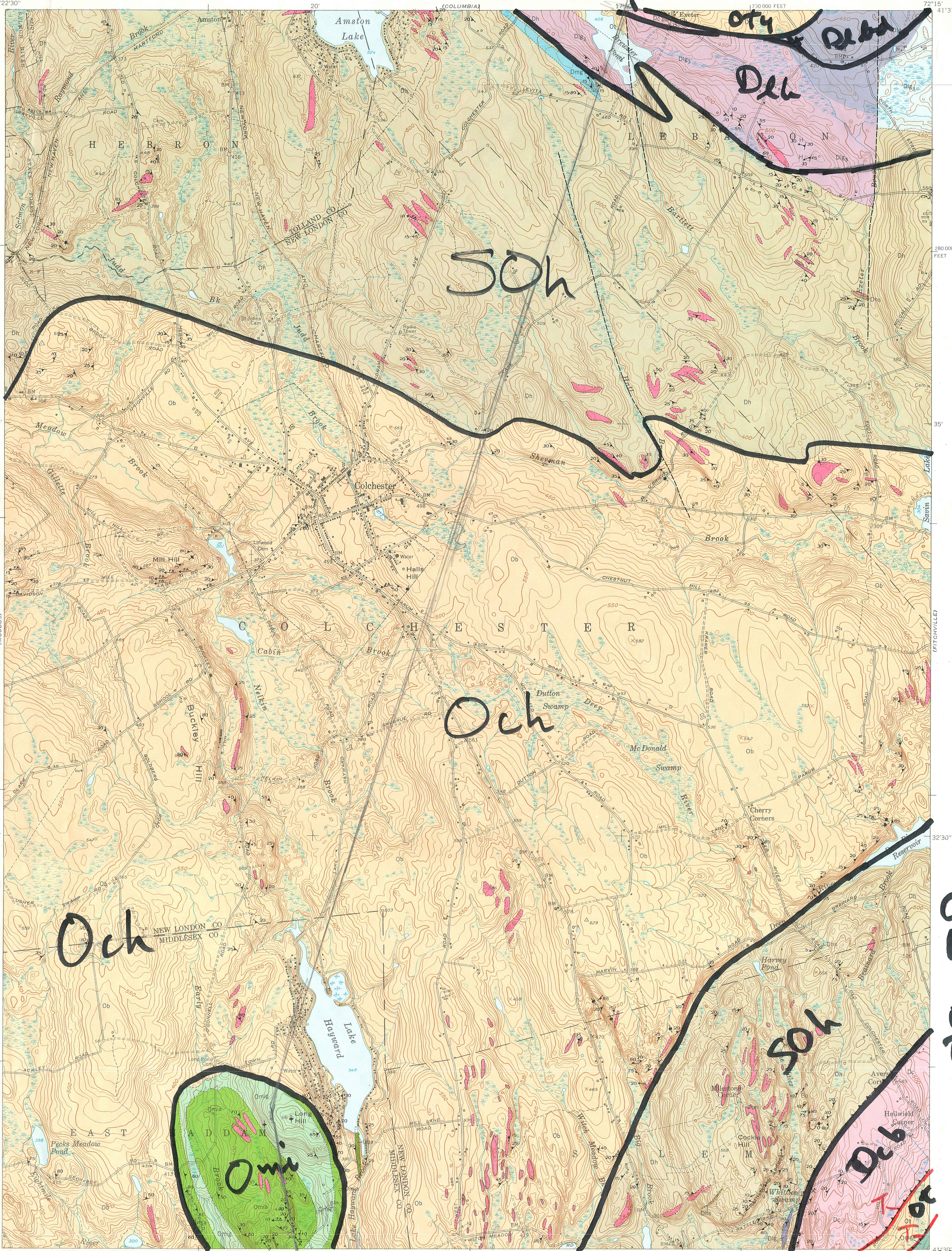
These materials are offered in the spirit of open government. Reproduction of these manuscripts was conducted to the highest practical degree, within the parameters of the funding mechanism. Original documents are available for inspection by contacting the Connecticut State Geologist.

*Manhattan in July 17, 21 July 1975*

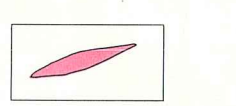
PREPARED IN COOPERATION WITH  
THE U.S. GEOLOGICAL SURVEY

STATE OF CONNECTICUT  
GEOLOGICAL AND NATURAL HISTORY SURVEY  
JOE WEBB PEOPLES, DIRECTOR

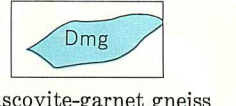
QUADRANGLE REPORT NO. 27  
PLATE 2



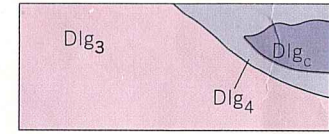
EXPLANATION



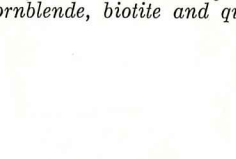
**Pegmatite**  
Coarse-grained, pink or white granitic rocks generally consisting of quartz, feldspar or albite, and microcline, and muscovite, biotite or both. Beryl, garnet and tourmaline are present in pegmatite in Hebron Formation.



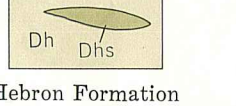
**Muscovite-garnet gneiss**  
Medium-grained, white oligoclase-microcline-quartz-muscovite-biotite-garnet quartz monzonite gneiss.



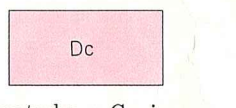
**Lebanon Gabbro of Rodgers and others (1959)**  
DlB3: Spotted white to black hornblende-biotite gabbro and diorite composed mainly of calcic plagioclase, hornblende, biotite, quartz, and magnetite-ilmenite. Hornblendes more abundant than biotite. Color index greater than 37.  
DlB4: Streaked, white to black, biotite diorite composed mainly of plagioclase, biotite, hornblende, and quartz. Biotite more abundant than hornblende, which is absent locally. Color index 30.



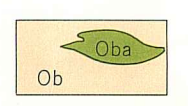
**Cataclastic facies of metagabbro within Honey Hill Blastomylonite zone.** Rock consists of andesine, hornblende, biotite and quartz. All minerals are partially crushed.



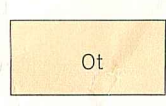
**Hebron Formation**  
Dh: Interbedded brownish gray quartz-biotite-plagioclase schist and greenish gray calc-silicate gneiss.  
Dhs: Muscovite-biotite schist.



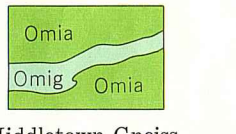
**Canterbury Gneiss**  
Gray, biotite-bearing quartz-feldspar gneiss locally containing conspicuous augen of Carlsbad-twinned microcline.



**Brimfield Schist**  
Ob: Gray or rust-stained garnetiferous biotite-muscovite schist with subordinate sillimanite schist, garnetiferous quartz-biotite schist, garnetiferous calc-silicate granulite, and amphibolite.  
Oba: Hornblende-plagioclase amphibolite.



**Tatnic Hill Formation**  
Schist similar to Brimfield Schist (Ob) and believed to be partially stratigraphically equivalent. Present, but not exposed in C 19; presence inferred from distribution in adjoining quadrangles.



**Middletown Gneiss**  
Omig: Rust-stained quartz-feldspar gneiss with interbedded amphibolite layers.  
Omi: Amphibolite interbedded with light-colored layers of quartz-feldspar gneiss in which anthophyllite, cummingtonite, or both of these amphiboles are present.



**Monson Gneiss**  
Pink, foliated alkali granite (quartz, microcline, plagioclase, magnetite).

*Dcb - Canterbury Gneiss*  
Contact  
*DlB - Lebanon Gabbro*  
*DlB3 - Dike-like phase of Lebanon Gabbro*  
*Sdh - Hebron Formation*  
*Och - Blastomylonite zone of crushed and partially recrystallized augeniferous amphibolite*  
*Och - Blastomylonite zone of crushed and partially recrystallized augeniferous amphibolite*  
*Hill fm. - Tatnic Hill Formation*  
*Omi - Middletown Gneiss*  
*Town fm. - Tatnic Hill Formation*

*104 - Young member of Tatnic Hill fm.*  
*105 - Tatnic Hill fm.*  
*106 - Vertical*  
*107 - Vertical*

**PLANAR FEATURES**  
Inclined  
Strike and dip of foliation. Strongly developed in schists generally parallel with compositional layering, assumed to be bedding, in the Hebron Formation and Middletown Gneiss.  
Vertical  
Strike and dip of conspicuous joints.

**LINEAR FEATURES**  
Bearing and plunge of lineation. Tail of arrow at point of observation. Letter symbols indicate nature of lineation: A, anthophyllite; B, boudin neck line; H, hornblende; S, sillimanite.

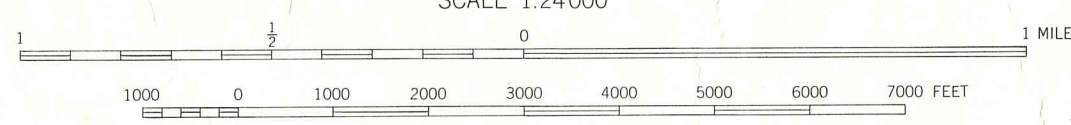
**MINOR FOLDS**  
Strike and dip of inclined fold.  
Bearing and plunge of axial plane.  
FA: axis of symmetrical fold. ~ symbol denotes map sense of small asymmetric fold viewed down the plunge.

*70 - Fresh - Kne Valley amphibolite gneiss*

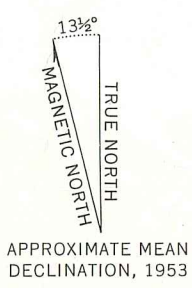
**BEDROCK GEOLOGIC MAP OF THE COLCHESTER QUADRANGLE, CONNECTICUT**

Base map by U.S. Geological Survey  
Control by USGS, & USC&GS, and Connecticut Geologic Survey  
Culture and drainage in part compiled from aerial photographs  
Topography by plane-table surveys 1942-1943. Revised 1953  
Polycyclic projection, 1927 North American datum  
10,000-foot grid based on Connecticut coordinate system

By Lawrence W. Lundgren, 1965-1966, and George L. Snyder, 1957-1960  
SCALE 1:24,000



CONTOUR INTERVAL 10 FEET  
DATUM IS MEAN SEA LEVEL



70