

New Britain 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This map set contains unpublished maps, cross-sections, and related information archived by the State Geological and Natural History Survey of Connecticut as part of the Survey Library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 For many geographic areas, more current information exists, either in published or unpublished form.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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JR Interpretation of map June & July 1976

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH
THE STATE OF CONNECTICUT
GEOLOGICAL AND NATURAL HISTORY SURVEY

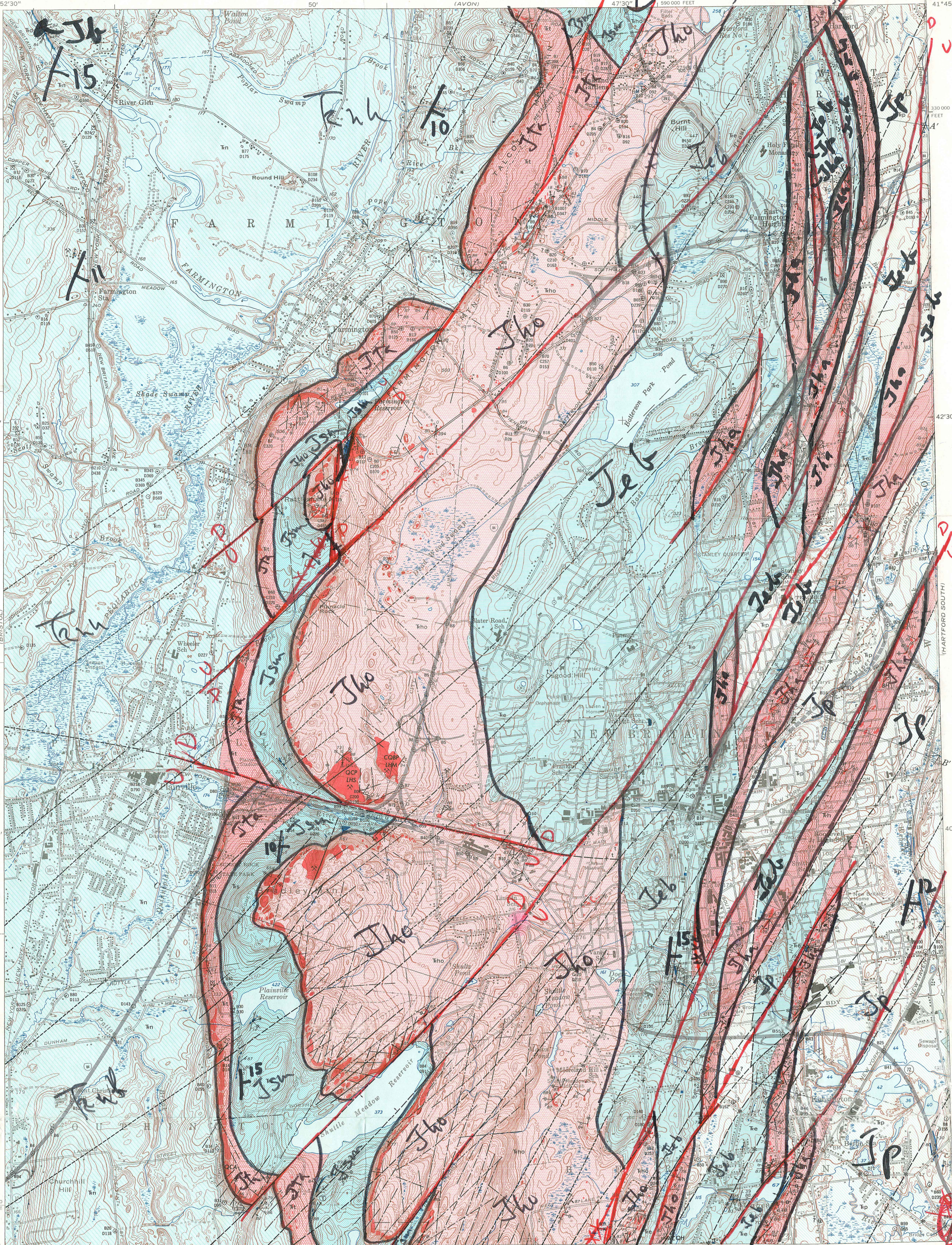
GEOLOGIC QUADRANGLE MAP
BEDROCK GEOLOGY
NEW BRITAIN QUADRANGLE, CONNECTICUT
GQ-494

EXPLANATION

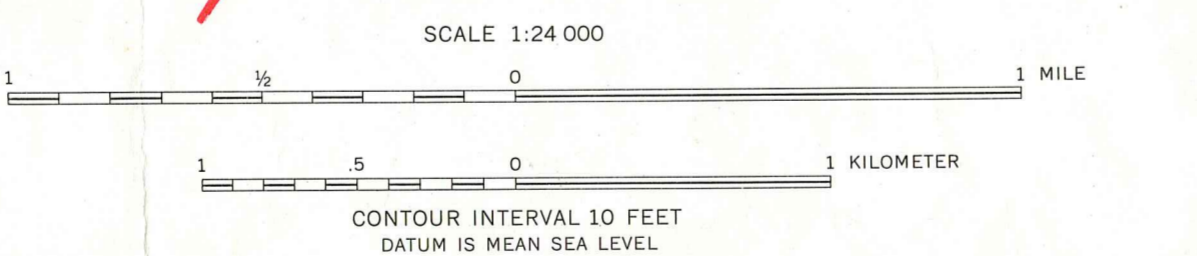
Solid red color indicates surface exposure of basalt; solid blue color indicates surface exposure of sedimentary rock. A temporary excavation examined, but no longer accessible, is indicated by t. The kind of rock in a former exposure of excavation is mapped as reported by an observer, and is marked by r. Structural symbols for faults, joints, and inclined beds and vascular zones may be combined radially at the locality of observation.

- Portland Arkose**
Pale-reddish-brown to grayish-red micaceous, feldspathic to arkosic interbedded medium- to fine-grained sandstone, siltstone, and silty shale; thickness unknown, but may exceed 1,000 feet
- Hampden Basalt**
Dark to very dark-gray or greenish-gray hard strong tough fine-grained basalt; thickness about 150 feet. Locally may consist of two or more closely sequential lava flows that constitute a single stratigraphic unit
- East Berlin Formation**
Pale-reddish-brown to grayish-red micaceous, feldspathic to arkosic interbedded fine-grained sandstone, siltstone, and silty shale; contains some micaceous medium-gray shale; locally contains a thin bed of light-gray medium-grained crystalline limestone. Thickness unknown, but may be about 600 feet
- Holyoke Basalt**
Dark to very dark-gray or greenish-gray hard strong tough fine- to medium-grained basalt; in part massive with columnar jointing, in part prismatically jointed; thickness about 250 feet. Locally consists of as many as nine closely sequential lava flows that constitute a single stratigraphic unit
- Shuttle Meadow Formation**
Pale-reddish-brown micaceous, feldspathic to arkosic interbedded medium- to fine-grained sandstone, siltstone, and silty shale, and, commonly in the south, highly fissile micaceous light-gray, greenish-gray, bluish-gray, and grayish-orange shale; thickness ranges from 270 to about 310 feet
- Talcott Basalt**
Dark to very dark-gray hard strong tough fine-grained basalt; thickness about 200 feet
- Basalt dike**
Dark-gray to black massive fine-grained basalt, cherty, locally containing small amounts of quartz. Exposed near the northwest corner of the quadrangle
- New Haven Arkose**
Pale-reddish-brown to grayish-red micaceous, feldspathic to arkosic interbedded coarse- to fine-grained sandstone, siltstone, and silty shale; thickness unknown, but may exceed 3,000 feet

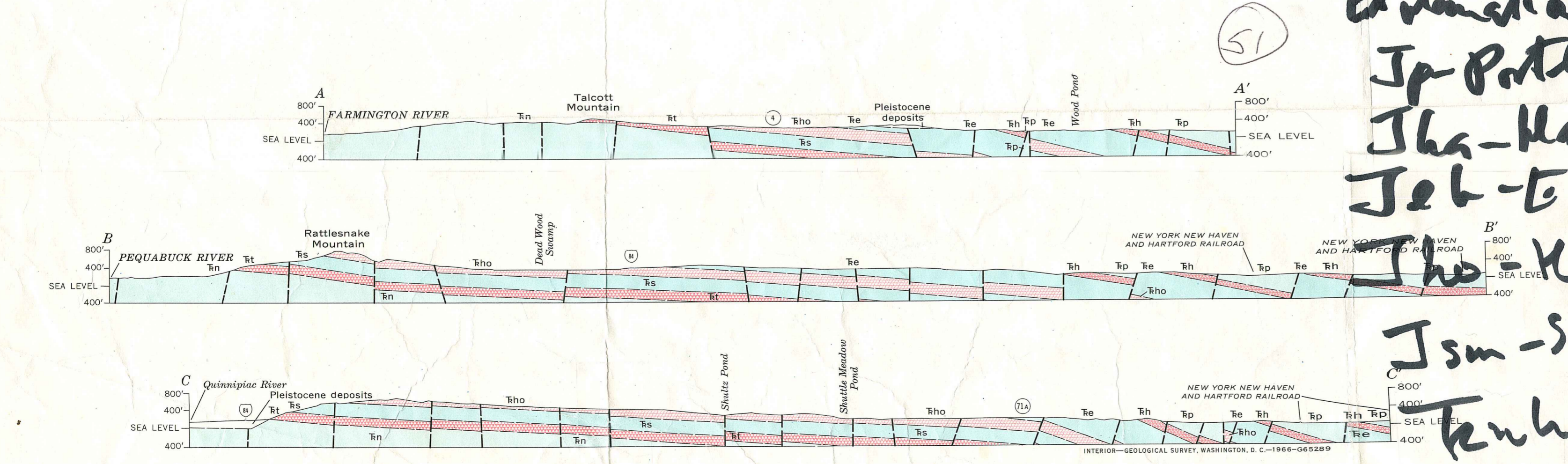
- Contact**
Dashed where approximately located; short dashed where inferred. Direction and amount of dip indicated where known
- Fault**
Dashed where approximately located; short dashed where inferred. Minor faults shown by a short line. Evidence consists of topographic and stratigraphic displacement, brecciation, striated surfaces, and scintillation counter data. Inferred from topography and adjacent quadrangles. The following symbols are shown in association with faults:
1, vertical dip
70, direction and amount of dip of inclined fault; direction inferred where number not shown
15, direction and amount of plunge of strations
—, opposite relative movement indicated by striations
T, overlying plate of small-displacement thrust fault
u, upthrown block
d, downthrown block
- Lineament**
From aerial photographs and topographic base map; in part examined in field. Believed to be faults, joints, or both, owing to similarity in attitudes
- Strike of inclined beds, showing direction and amount of dip where known**
12
6
- Strike of inclined vesicular zone, showing direction and amount of dip**
67
52
- Open Mineral-filled Joints, inclined and vertical**
Queried where direction and amount of dip not known
- Active Quarry**
Inactive Quarry
- Elongate vesicle near base of basalt, showing direction and amount of plunge of long axis**
- Anomalous high radioactivity, consistently indicated by scintillation counter**
- Anomalous high radioactivity, somewhat less consistently indicated by scintillation counter**
- Drill hole; rock encountered and significant data as reported on drilling logs**
O, unconsolidated material
X, undifferentiated bedrock
S, sedimentary bedrock
B, basalt
C, sedimentary rock cored
B, basalt overlies sedimentary rock
B, basalt cored
C, sedimentary rock overlies basalt
B, basalt overlies sedimentary rock, which in turn overlies basalt
S, sedimentary rock overlies basalt, which in turn overlies basalt
c10, altitude of contact where two are present
120, altitude of lower contact where two are present
100, depth of drill hole
?, kind of bedrock or datum reported is questionable
- Altitude of contact in excavation**
215



Base by U.S. Geological Survey and City of Hartford 1953
10,000-foot grid based on Connecticut coordinate system
Roads revised, 1962



Geology by H. E. Simpson, 1955-1959, 1962; assisted by Andrew J. Nalwalk, 1956, and John F. Langmaid, III, 1957. Most subsurface data from City Engineer, New Britain; Hartford Water Commission; Connecticut State Highway Department; New Britain Public Schools; Connecticut Water Commission; U.S. Department of Agriculture; and U.S. Geological Survey records. Other subsurface data by the author



Explanations
Jp - Portland fm.
Jhs - Hampden fm.
Jhb - East Berlin fm.
Jho - Holyoke basalt
Jsm - Shuttle Meadow fm.
Tenh - New Haven arkose

Mineral abbreviations:
A, amethyst
B, beryl
C, calcite
H, hydrocarbon (cf. asphaltum)
L, chalcopyrite
M, malachite
P, prehnite
Q, quartz
S, sphalerite

Type locality of formation
Erosion nearly constitute localities 29 and 30 of the "lower" section of the "lower" division" of the Krynin, 1950, p. 10, p. 11, p. 12, p. 13, p. 14, p. 15, p. 16, p. 17, p. 18, p. 19, p. 20, p. 21, p. 22, p. 23, p. 24, p. 25, p. 26, p. 27, p. 28, p. 29, p. 30, p. 31, p. 32, p. 33, p. 34, p. 35, p. 36, p. 37, p. 38, p. 39, p. 40, p. 41, p. 42, p. 43, p. 44, p. 45, p. 46, p. 47, p. 48, p. 49, p. 50, p. 51, p. 52, p. 53, p. 54, p. 55, p. 56, p. 57, p. 58, p. 59, p. 60, p. 61, p. 62, p. 63, p. 64, p. 65, p. 66, p. 67, p. 68, p. 69, p. 70, p. 71, p. 72, p. 73, p. 74, p. 75, p. 76, p. 77, p. 78, p. 79, p. 80, p. 81, p. 82, p. 83, p. 84, p. 85, p. 86, p. 87, p. 88, p. 89, p. 90, p. 91, p. 92, p. 93, p. 94, p. 95, p. 96, p. 97, p. 98, p. 99, p. 100, p. 101, p. 102, p. 103, p. 104, p. 105, p. 106, p. 107, p. 108, p. 109, p. 110, p. 111, p. 112, p. 113, p. 114, p. 115, p. 116, p. 117, p. 118, p. 119, p. 120, p. 121, p. 122, p. 123, p. 124, p. 125, p. 126, p. 127, p. 128, p. 129, p. 130, p. 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BEDROCK GEOLOGIC MAP OF THE NEW BRITAIN QUADRANGLE, CONNECTICUT

By
Howard E. Simpson
1966