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This map set contains unpublished maps, cross- sections, and related information archived by the State Geological and Natural History Survey of Connecticut as part of the Survey Library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 For many geographic areas, more current information exists, either in published or unpublished form.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

These materials have been preserved under a cooperative agreement between the State Geological Survey and the US Geological Survey as part of the National Geological and Geophysical Data Preservation Program. www.datapreservation.usgs.gov

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.

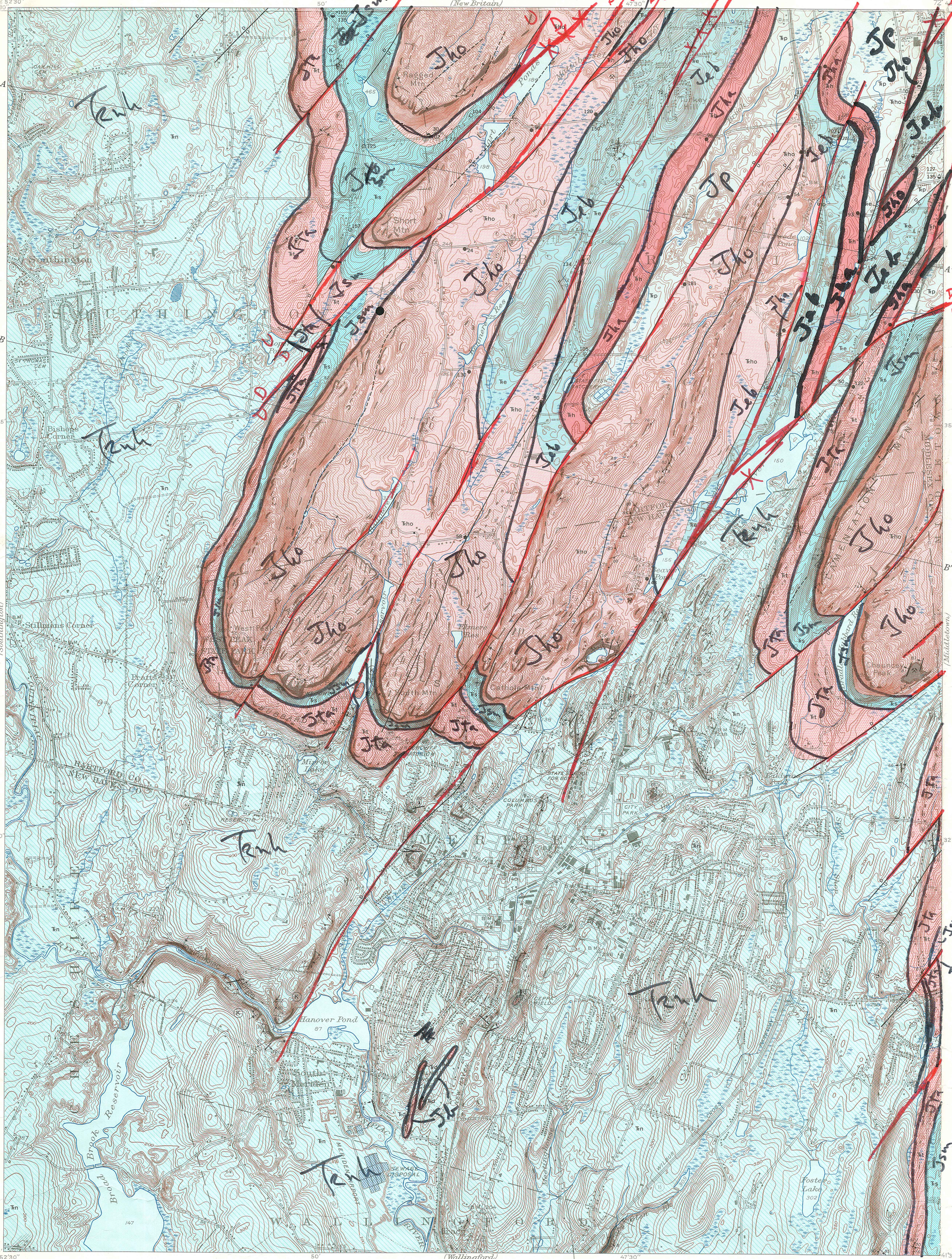
J R Interpretation Geology Jenness July 1978

Meriden

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
MERIDEN QUADRANGLE, CONNECTICUT
GQ–738



EXPLANATION

Trd — Diabase dike
Bluish- to greenish-gray fine-grained diabase. Brecciated, and in places contains xenoliths of green sandstone. Dike shown without outcrop in Walnut Grove Cemetery "hard blue rock" reported by grave diggers

Trp — Portland Arkose
Only exposure in this quadrangle is a small 3-foot thick section of reddish-brown micaceous fine-grained sandstone at dam on Gill Pond in northeastern part of quadrangle. Elsewhere it is similar lithologically to New Haven Arkose

Trh — Hampden Basalt
Greenish-gray to bluish-green, aphanitic to medium-grained basalt. Layers of vesicular basalt, less than 1 foot thick, common. Vesicular basalt more common in upper part of unit than lower part

Tre — East Berlin Formation
Light brown shale and sandstone interbedded with red shale and sandstone, micaceous in places; and coarse-grained reddish-gray or tan well-indurated sandstone. Most beds less than 1 foot thick

Trho — Holyoke Basalt
Greenish- to bluish-gray massive basalt commonly having columnar joints. Basalt, fine- to medium-grained. Vesicular purplish-red basalt found locally. Siliceous fracture fillings common in Hanging Hills area

Trs — Shuttle Meadow Formation
Red, chocolate-brown, and gray fine-grained sandstone, siltstone, and shale; some black shale; beds generally thin; sandstone, crossbedded in places

Trt — Talcott Basalt
Bluish-gray to bluish-green fine-to medium-grained basalt; generally massive, but vesicular basalt also common; pillow structure well developed in many outcrops, agglomerate common near Lamentation Mountain

Trn — New Haven Arkose
Arkosic conglomerate and sandstone, medium-to fine-grained feldspathic sandstone and siltstone. Coarser grained rocks, gray or pink; finer grained rocks generally brick red, but green mottling or beds of light-green sandstone and siltstone occur locally. Bedding generally lenticular

Newark Group — Upper Triassic — TRIASSIC

t — Bedrock outcrops
Only major outcrops are shown on most dip slopes of Holyoke Basalt; t, temporary exposure. Ruled pattern indicates area of abundant outcrops and areas where surficial deposits are generally <10 feet thick. Northwest-trending pattern indicates volcanic bedrock, northeast-trending pattern indicates sedimentary bedrock

Contact
Dashed where approximately located

ao U D — Fault, approximately located
Short dashed where inferred; queried where doubtful. U, upthrown side; D, downthrown side; different displacement symbols on same side of fault indicate assumed "scissors fault"

12 — Strike and dip of beds

20 — Strike and dip of vesicular banding in basalt

20 — Inclined
Vertical
Strike and dip of joints

Active
L Inactive
Quarry
L, *limestone quarry*

127/135 ?/80 9 — Drill hole
Upper number where given indicates depth to contact; lower number where given indicates total depth of hole; queried where depth unknown; single number is total depth of hole. All measurements are in feet. All depths measured from below ground surface or well collar; depth includes veneer of surficial deposits in many places; all depths and rock types are as reported by others, none seen by author
○ *Sedimentary rock*
● *Basalt*
◒ *Sedimentary rock overlies basalt*
◓ *Basalt overlies sedimentary rock*
◌ *Undesignated material overlying basalt*
Data shown only where important to geologic interpretation; compiled from files of U.S. Geological Survey, Water Resources Division, Middletown, Conn., from Waring (1920), Brown (1928), and from files of the Stephen B. Church Co., Seymour, Conn.

(K) — Locality described by Krynine (1950)

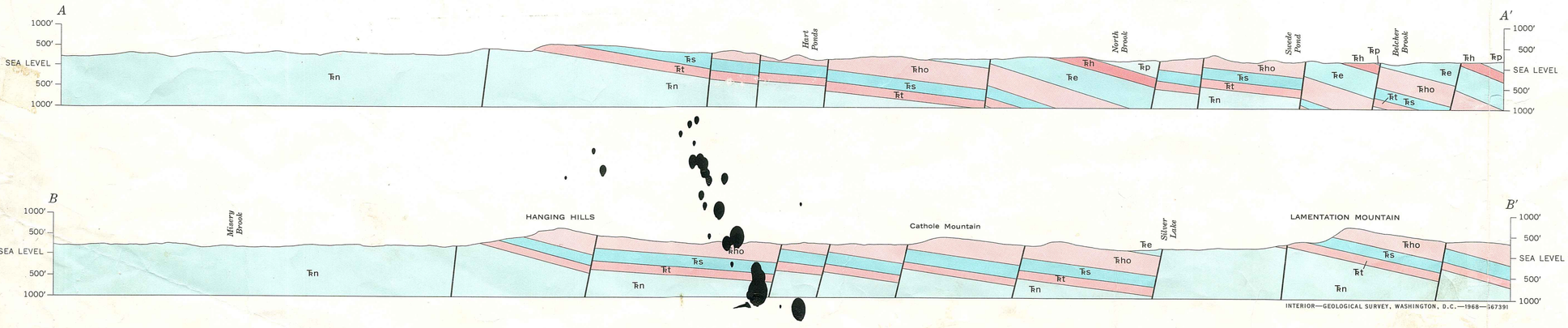
Base by U.S. Geological Survey, 1955

SCALE 1:24 000
1 ½ 0 1 MILE
1 .5 0 1 KILOMETER
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

APPROXIMATE MEAN DECLINATION, 1968

CONNECTICUT
QUADRANGLE LOCATION

Geology mapped in 1955–58 by P. M. Hanshaw; assisted by M. L. Conant in 1955, D. A. Rainsford in 1956–58, and B. A. Smysor and H. L. Mark in 1956



BEDROCK GEOLOGIC MAP OF THE MERIDEN QUADRANGLE, NEW HAVEN, HARTFORD AND MIDDLESEX COUNTIES, CONNECTICUT

By

Penelope M. Hanshaw

1968

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1968—567391

For sale by the U.S. Geological
Explanatory pamphlet accomp