

Brewster Quadrangle Bedrock Geology Map

Sneider

Map

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INTERBEDDED QUARTZ-FELDSPAR-BIOTITE-HORN-BLENDE-GRANITIC GNEISS AND HORN-BLENDE-FELDSPAR-BIOTITE-EPID-AMPHIBOLIC GNEISS WITH INTERCALATED BIOTITIC GRANITE AND PERM-ITATE.

NOTE: THE GRANITIC GNEISS IS THE DOMINANT LITHOLOGY IN THIS AREA. 40000 FEET (CONN.)

AMPHIBOLITE GNEISS

BIOTITE-K FELDSPAR GRANITE AND PERM-ITATE, LOCALLY WITH VERY COARSE CRYSTALS OF POTASH FELDSPAR

SAME TYPE OF GRANITE AS THAT ABOVE, BELOW

NOTE: AMOUNT OF AMPHIB. GN. INCREASES HERE.

GRANITIC QUARTZ-BIOTITE FELDSPAR SCHISTOSE GNEISS WITH ABUNDANT GEPARTE AND/OR SILLIMANITE DEVELOPED LOCALLY

SOME INTERBEDDED HORN-BLENDE PLAGIOCLASE AMPHIBOLITE GNEISS WHICH IS LOCALLY GARNET IFEROUS

GEOPHONAL CONTACT BETWEEN THE TWO MAJOR ROCK UNITS

SOUTH OF THIS LINE AND TO THE HIGHLANDS FAULT I HAVE NOT SATISFACTORILY SUBDIVIDED THE HIGHLANDS

THERE ARE MANY REPETITIONS OF THE FOLLOWING ROCK TYPES:

- BIOTITE-PLAG-K FSPR QUARTZ GRANITIC GNEISS
- HORN-BLENDE PLAG-BIOTITE QUARTZ GRANITIC GNEISS
- BIOTITE-QUARTZ GRANITIC GNEISS
- BIOTITE-QUARTZ-K FSPR SCHISTOSE GNEISS
- AMPHIBOLITE GNEISS AND LOCALLY PEGMATITE-HORN-BLENDE AMPHIB. GNEISS

ALL OF THE ABOVE ARE CUT BY BIOTITE GRANITE AND PERM-ITATE

THERE IS A GREAT DEAL OF SEVERE FOLDING IN THIS AREA AND THERE MAY BE DUPLICATION OF LITHOLOGIC TYPES AS A RESULT.

HIGHLANDS FAULT

FORDHAM GNEISS

INWOOD

MANHATTAN FORMATION

Pub. list. by U.S. Geol. Surv. 1943. 1927 North American datum. 5000 yard grid based on U. S. zone system. A 10000 foot grid based on New York (East) and Connecticut rectangular coordinate systems.

Mapped by the Geological Survey
1943
4.8 MI. TO N.Y. 121



BREWSTER, N. Y.-CONN.

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FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Heavy-duty 4 LANE 16 LANE Light-duty 4 LANE 16 LANE

Medium-duty 4 LANE 16 LANE Unimproved dirt

U. S. Route State Route

N4122.5-W7330/7.5
1943
Traced by J.W.B. 12/69

Geology by Sneider

m557.46
brew/m46
1969
Map 1

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GEOLOGICAL SURVEY

December 18, 1969

Prof. J. W. Peoples
Department of Geology
Wesleyan University
Middletown, Connecticut

Dear Joe:

Attached is a copy of Sneider's map of the Connecticut portion of the Brewster quadrangle. We have no map of the remainder of the quadrangle aside from Terry Offield's broad reconnaissance of the Hudson Highlands which appears on the 1969 State Geologic map.

Happy holidays!

Yngvar
Yngvar W. Isachsen
Associate Scientist, Geology

YWI/sbm