Open Report

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CONNECTICUT GEOLOGICAL
AND NATURAL HISTORY SURVEY

QUADRANGLE
REPORT No. 5

GLASTONBURY QUADRANGLE
CONNECTICUT
7.5 MINUTE SERIES (TOPOGRAPHIC)

GEOLOGIC MAP
AND CROSS-SECTION OF GLASTONBURY QUADRANGLE
CONNECTICUT

EXPLANATION

NEWARK GROUP

Portland formation of Krynine; coarse arkosic sandstone with pebbles of crystalline rocks to 10 mm.

PEGMATITES

Sill-like and dike-like bodies, primarily of feldspar, muscovite, and quartz

GLASTONBURY GNEISS

gs-schistose facies

Schistose gneiss with abundant oligoclase and microcline, biotite the chief mafic mineral, local hornblende and epidote

gp-porphyroblastic facies

Pinkish gneiss with large potash feldspar metacrysts, medium-coarse grain with abundant biotite in knots

gf-flaser facies

Flaser of quartz especially, and feldspar, medium-coarse grain with abundant biotite in knots; locally abundant epidote

gb-eastern border facies

Well foliated in the south, well lineated without foliation in the north; felsic, coarse grain, biotite in folia

MONSON GNEISS

Light, medium grain, well-foliated, plagioclase over half, mafics biotite and hornblende; included amphibolites with hornblende over half

BOLTON SCHIST

bs-Bolton schist, undifferentiated

Largely crenulated biotite schist

bcs-crenulated schist

Intensely crenulated biotite schist, generally with abundant staurolite and garnet

bm-marble

Isolated, as lenses with abundant accessory titanite, magnetite, etc.

bms-mylonitized schist

Nondescript dark rock of altered, granulated biotite, feldspar, and quartz

bq-quartzite

Foliated to massive, fused quartz pebble layers and minor sericite

MIDDLETOWN GNEISS

Series of biotite and amphibole gneisses, fine grained, with abundant feldspars and quartz

Contacts and boundaries, dotted where inferred

Strike and dip of bedding — 40

Strike and dip of foliation or schistosity — 50

Plunge of lineation:

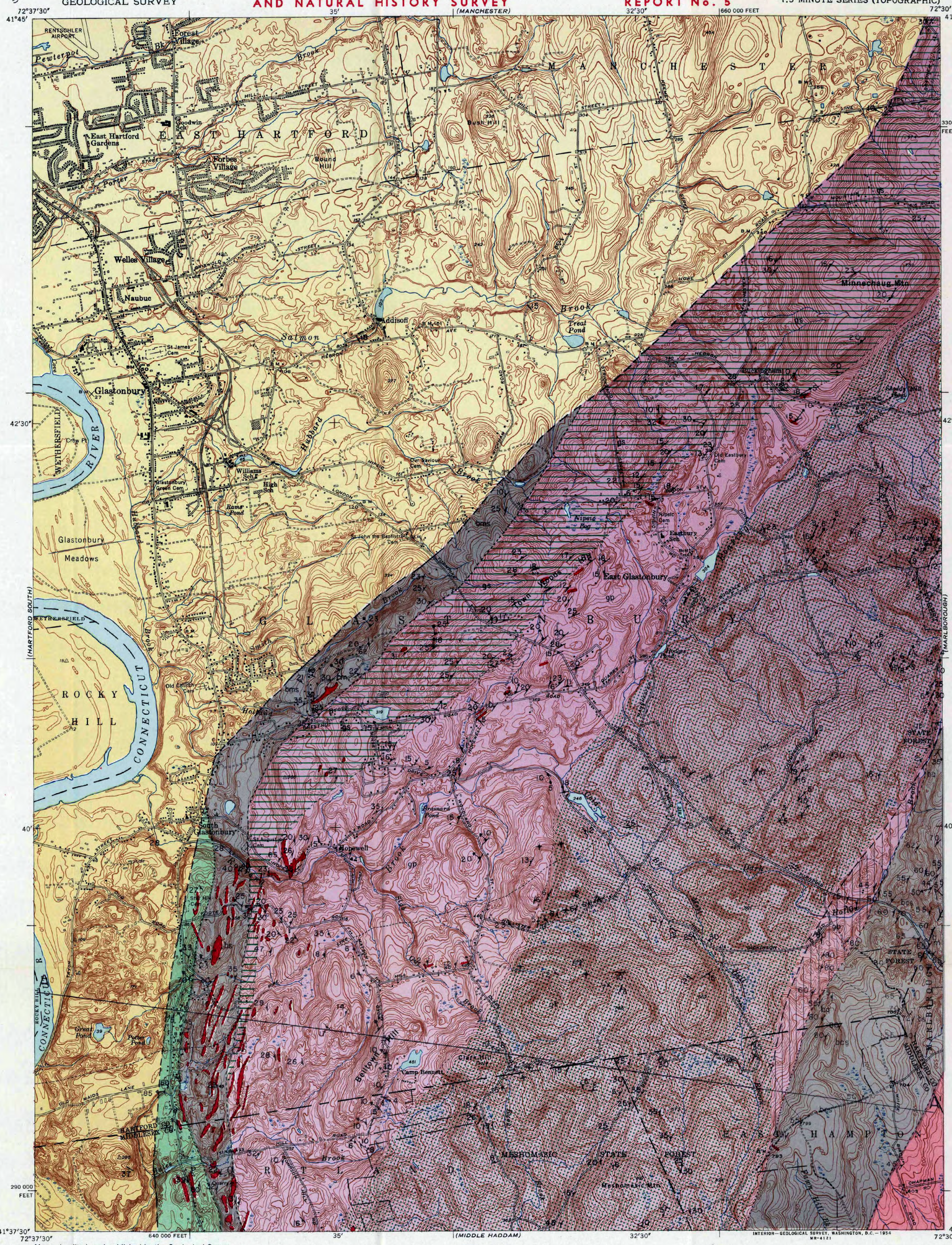
mineral — 30

slickenside — 15

fold axis — 40

Fault inferred from surface data

Faults inferred from well data



Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, USCE, and Connecticut Geodetic Survey

Topography by plane-table surveys 1942-1943. Revised 1953

Polyconic projection. 1927 North American datum
10,000 foot grid based on Connecticut coordinate system

13°
MAGNETIC NORTH
TRUE NORTH
APPROXIMATE MEAN DECLINATION, 1953

SCALE 1:31680

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

These marginal notations refer to the base map

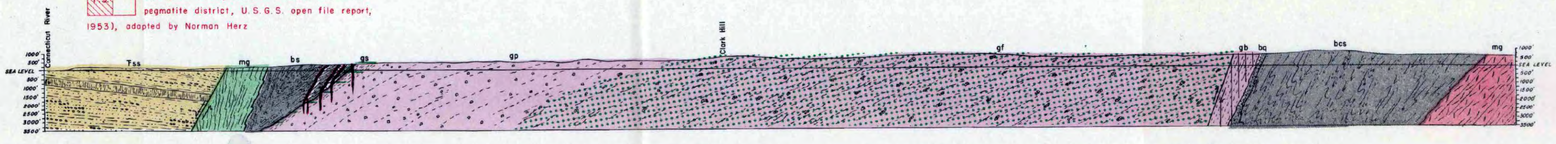
N.H.
F.S.

N. H. Geology by Norman Herz
F. S. Geology by Frederick Stugard, Jr., U. S. Geological Survey (Map of Portland-Middletown pegmatite district, U. S. G. S. open file report, 1953), adapted by Norman Herz

CONNECTICUT
QUADRANGLE LOCATION

GLASTONBURY, CONN.
N4137.5—W7230/7.5
1953

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1954
MR-4121



SECTION ALONG A-A'