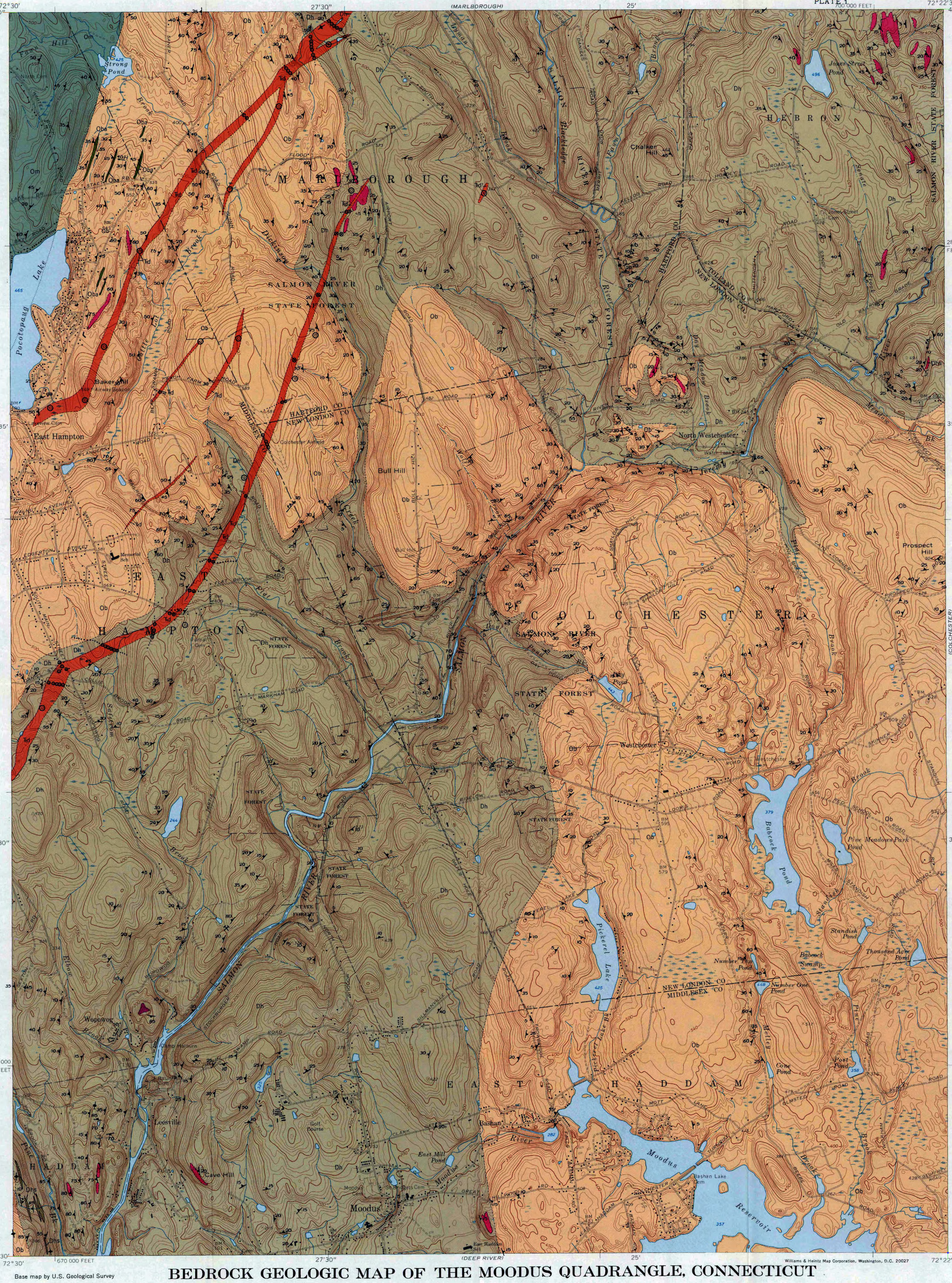
STATE OF CONNECTICUT
GEOLOGICAL AND NATURAL HISTORY SURVEY
JOE WEBB PEOPLES, DIRECTOR

QUADRANGLE REPORT NO. 27
PLATE 1

Open Report



Williams & Heintz Map Corporation, Washington, D.C. 20027

EXPLANATION

TRIASSIC

Diabase

Ꞧd: *symbol located at outcrops. Circle enclosing cross indicates boulder. Circle enclosing dot along dotted line indicates line of ground magnetometer traverse; reading at circles exceeded 56750 gamma. Circle enclosing circle marks high on unpublished U.S.G.S. aeromagnetic profile. Contacts are schematic where not controlled by outcrop or ground magnetometer.*

DEVONIAN OR OLDER

Pegmatite

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

Hebron Formation

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

Dhs: *Muscovite-biotite schist.*

ORDIVICIAN OR OLDER

Brimfield Schist

Ob: *Gray or rust-stained garnetiferous biotite-muscovite schist with subordinate sillimanitic schist, garnetiferous quartz-biotite schist, garnetiferous calc-silicate granofels, and amphibolite.*

Oba: *Hornblende-plagioclase amphibolite.*

Ivoryton Group of Lundgren (1966b)

Monson Gneiss

Light to dark-gray, medium-grained, plagioclase-quartz-biotite-hornblende gneiss and dark-gray to greenish black amphibolite; gneiss is indistinctly foliated to sharply layered.

Contact

Dashed where approximately located; short dashed where gradational or inferred; dotted where concealed.

PLANAR FEATURES

50 Inclined — Vertical

Strike and dip of foliation. Strongest foliation or schistosity generally parallel with compositional layering, assumed to be bedding, in the Hebron Formation.

70 Inclined — Vertical

Strike and dip of conspicuous joints.

LINEAR FEATURES

20 H

Bearing and plunge of lineation. Tail of arrow at point of observation. Letter symbols indicate nature of lineation. H, hornblende; Q, quartz; S, sillimanite.

MINOR FOLDS

30

Strike and dip of inclined axial plane.

15 FA — 10

Bearing and plunge of fold axis.

FA: axis of symmetrical fold. ∿ symbol indicates map sense of small asymmetric fold viewed down the plunge.

∿

Isoclinal folds

Quarry

BEDROCK GEOLOGIC MAP OF THE MOODUS QUADRANGLE, CONNECTICUT

By Lawrence W. Lundgren, 1965-1966 and Lawrence P. Ashmead, 1958-1959

Base map by U.S. Geological Survey

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

Planimetry by photogrammetric methods from aerial photographs taken 1941. Topography by planetable surveys 1942-1943. Revised from aerial photographs taken 1965. Field checked 1967.

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

MN GN 13½° 240 MILS 1°42' 30 MILS

UTM GRID AND 1967 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

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

CONNECTICUT
QUADRANGLE LOCATION