UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS

OF 77-816

HANOVER QUADRANGLE
MASSACHUSETTS–PLYMOUTH CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

BEDROCK; CLOSELY

15 • BOULDER; size of boulder in ft
SW STONE WALL
F PLANT FOSSILS
O BEDROCK BORE HOLE (GQ-633)

g Pre-Pennsylvanian granitic rocks (GQ-633)
plant fossils LJ
cc cobble conglomerate
pc pebble conglomerate
gc granule conglomerate
sp Sandstone, pebbly
sc Sandstone, medium- to very coarse-grained
sht schist, carbonaceous
PR Rhode Island Formation
DQM Dedham Quartz Monzonite, coarse-grained (≥5mm)
dqm Dedham Quartz Monzonite, medium-grained (2-5mm)
dqm-SD Dedham Quartz Monzonite - Salem Diorite
QD Quartz Diorite
QG Quincy Granite
22 strike and dip of beds
qv quartz vein
fault probable; D, downthrown side; U, upthrown side
fault, inferred
fault, conjectural

SOURCES:
S Shaler and others, 1899*
SP Shaw and Peterson, U.S.G.S. GQ 133
(200) Circled numbers and boulder data, P.C. Lyons, U.S.G.S., 1977; S, sample taken
* Data transferred to 1:24,000 base map by H.B. Chase
WW Williams and Willey, 1970, Basic Data Rpt. No. 12, U.S.G.S.
LJ Lyons and Jones, Unpub. data, Weston Observatory-Boston College

Geology by P.C. Lyons, U.S.G.S., 1977

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R. STON. V
FEB 24 1978
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Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and Massachusetts Geodetic Survey
Planimetry by photogrammetric methods from aerial photographs
Topography by planetable surveys 1935. Revised 1962
Polyconic projection. 1927 North American datum
10,000-foot grid based on Massachusetts coordinate system, mainland zone
1000-meter Universal Transverse Mercator grid ticks, zone 19, shown in blue

SCALE 1:24000
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
Heavy duty — Light duty
Medium duty — — — Unimproved dirt
State Route

UTM GRID AND 1962 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

HANOVER, MASS.
N4200—W7045/7.5
1962
AMS 6868 III SE—SERIES V814

Massachusetts (Narragansett Basin) Geol. 1:31,250. 1977
sheet Hanover
Loc. 1

77-816m