(200)
R290
no. 984

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PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

68-134

PRELIMINARY MATERIALS MAP
PITTSFIELD EAST QUADRANGLE
MASSACHUSETTS
by
G. William Holmes

U.S. GEOLOGICAL SURVEY
FEB 12 1968
DENVER

## EXPLANATION

**Recent**

**Qal** — Alluvium
Silt, sand, and gravel, in modern flood plains and in swales. Occurs as low terraces subject to floods

**Swamp deposits**
Organic matter, undecomposed to partly decomposed, generally mixed with silt and sand; locally peaty.

**Qf** — Alluvial fan deposits
Silt, sand, gravel and boulders poorly sorted and poorly stratified, occurring in broad to narrow fans at the mouths of moutain canyons

**Qts** — Talus
Accumulations of very large angular blocks of local bedrock at the base of steep slopes

**Qst** — Stream terrace deposits
Sand and gravel, typically well stratified, and moderately well sorted. Probably glacio-fluvial in origin, but not demonstrably related to an ice-front position

**Pleistocene**

**Qcd** — Ice-contact stratified drift
Kettled, collapsed, or eroded glacio-fluvial deposits, including silt, sand, pebbles, cobbles and boulders. Forms include kames and kame terraces

**Qic** — Ice-channel deposits
Gravel and sand, normally well stratified and moderately well sorted, in narrow ridges, and deposited in ice tunnels or other ice channels

**Qd** — Delta deposits
Gravel and sand, with topset and foreset bedding. Deltas represent two lake levels: at Dalton, ca. 1160 ft. a.s.l., and in the main valley of the Housatonic River, at ca. 1000 ft. a.s.l.

**Qt** — Till
Boulders, gravel, sand, silt and clay, nonsorted to poorly sorted with a few bodies of stratified sand and gravel. Deposited directly by glacial ice which advanced generally from northwest to southeast

**QUATERNARY**

Contact, dashed where inferred

**af** — Artificial fill: dams, embankments and sanitary fill

Summit of a drumlinoid hill, one composed partly of till smoothed and streamlined by glacial motion

Construction materials pit
Crossbar indicates inactive pit. Hachures indicates series of pits. Number refers to data sheets. Letter symbols: t, till; s, sand; ps, pebble sand; g, gravel of mixed sizes; bs, boulder sand; bg, boulder gravel. Many minor or graded over pits not numbered; refer to numbered pit in same deposit for data. The Pittsfield-Dalton area is rapidly develping, and pits are opened or are graded over from year to year

Meltwater channel. Arrow shows possible direction of flow

Boulders

U.S. Geological Survey
OPEN FILE REPORT
This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

Geology mapped in 1963,1967 by G. William Holmes, assisted by George C. Kelley, 1967

Pittsfield East, Mass. quadrangle. G. William Holmes, 1963,1967