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no. 883

PRELIMINARY MATERIALS MAP OF THE BECKET
QUADRANGLE, MASSACHUSETTS

BY

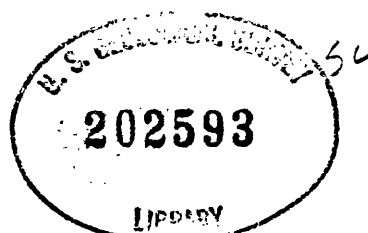
G. WILLIAM HOLMES

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U. S. Geological Survey.

REPORTS*OPEN FILE SERIES, NO. 883: 1967.

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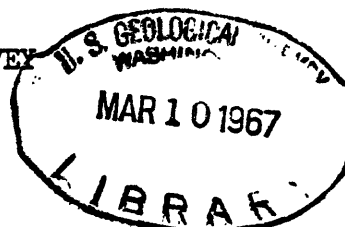
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GEOLOGIC DIVISION
U. S. GEOLOGICAL SURVEY
Washington, D C
20242



For release MARCH 20, 1967

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2. Preliminary materials map of the Becket quadrangle, Massachusetts, by G. William Holmes. Room 1, 270 Dartmouth St., Boston, Mass., 02116; and Massachusetts Department of Public Works, 100 Nashua St., Boston, Mass., 02114. Copies from which reproduction can be made at private expense are available in the Dartmouth St. office.

3. Surficial geologic map of the Milford quadrangle, New Hampshire, by Carl Koteff. 1 map and explanation, scale 1:62,500. Room 1, 270 Dartmouth St., Boston, Mass., 02116. Copies from which reproduction can be made at private expense are available in the Boston office.

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4. The geology of the western limb of the Hazara-Kashmir syntaxis, West Pakistan and Kashmir. 150 pages, 6 pl. (including 2 quadrangles, scale 1:50,000), 33 figs., 4 tables.

by James A. Calkins

* * * * *

Field and magascopic observations:

Station number 1
X Active
 Location: County Berkshire Town Becket Pit 42°15'02"
73°01'12"
 Road location On Quarry Road Coordinates
 Geologic unit or occurrence Ice contact stratified drift in kame
 Textural description Sand and cobble sand Eng. Soil Type SP
 Dimensions of deposit: Areal extent 600x600' Estimated thickness 60'
 Dimensions of pit: Areal extent 150x50' Exposed thickness 20'
 Lithologic composition (approximate %) ---
 Grain size: Maximum 1' Mean 1/16" Est. % of sand 85 Est. % fines 5
 Rounding - Grading poor Sorting good
 Soil development 6" B horizon Color reddish brown
 Oxidation or staining - Leaching -
 Secondary deposition - Reactive matter -

Section:

Rock type	

General Description:

Good supply of fine sand, readily accessible. Two small kames of similar composition to north.

Field and megascopic observations:

Station number 2
 Location: County Berkshire Town Becket Pit X ☒ Active ☐ Inactive
 Road location Bonny Rigg Hill Road Coordinates 42°45'15"02" 73°02'17"
 Geologic unit or occurrence Ice contact stratified drift in kame
 Textural description Boulder gravel Eng. Soil Type GW
 Dimensions of deposit: Areal extent 600x1000' Estimated thickness 25'
 Dimensions of pit: Areal extent 500x200' Exposed thickness less than 10'
 Lithologic composition (approximate %) 80% gneiss, 5% granite
5% quartzite, 10% schist
 Grain size: Maximum 15' Mean 1/16" Est. % of sand 30 Est. % fines 5
subangular-
 Rounding subrounded Grading good Sorting poor
 Soil development -- Color --
 Oxidation or staining -- Leaching --
 Secondary deposition -- Reactive matter --

Section:

Rock type	

General Description:

Very coarse gravel; pit abandoned and used as junk yard.

Becket
QUADRANGLE

Massachusetts
STATE

R. W. Healey
GEOLOGIST

July, 1966
DATE

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Station number 3
 X Active
 Inactive

Geologic unit or occurrence Ice contact stratified drift in kame

Textural description Boulder gravel/Sand Eng. Soil Type GP/SW

Dimensions of deposit: Areal extent 400x250' Estimated thickness 30'

Dimensions of pit: Areal extent 300x100' Exposed thickness 30'

Lithologic composition (approximate %) 75% gneiss, 10% schist. 15% misc.

Grain size: Maximum 4' Mean 1/16" Est. % of sand 50 Est. % fines 5
subangular-

Rounding subangular subrounded **Grading** well **Sorting** medium

Soil development -- Color --

Oxidation or staining .. Leaching ..

Secondary deposition -- Reactive matter --

[illegible]

General Description: Very limited supply of good quality, readily accessible, well-graded gravel and sand.

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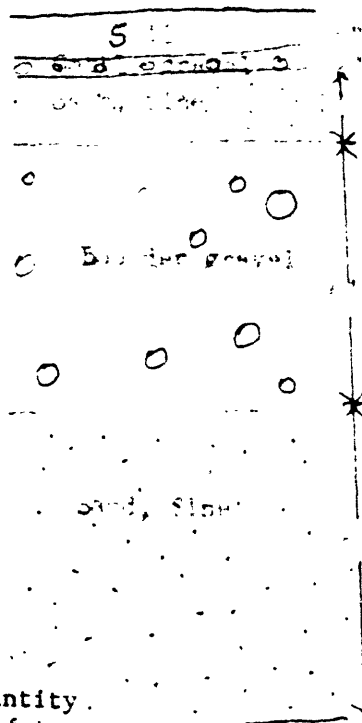
Mass. Materials

Field and megascopic observations:

Station number 4
 Location: County Berkshire Town Becket Pit X Active Inactive
 Road location Rte. 20 & Bonny Rigg Hill Rd Coordinates 42°15'45"
73°03'00"
 Geologic unit or occurrence Ice contact stratified drift in kame
 Textural description gravel of mixed sizes Eng. Soil Type GW/SP
 Dimensions of deposit: Areal extent 100x600' Estimated thickness 30-40'
 Dimensions of pit: Areal extent 300x150' Exposed thickness 20'
 Lithologic composition (approximate %) see below
 Grain size: Maximum 4' Mean 1/16 Est. % of sand 50 Est. % fines 3
subangular-
 Rounding subrounded Grading well Sorting medium
 Soil development 6" B horizon Color brown
 Oxidation or staining -- Leaching --
 Secondary deposition -- Reactive matter --

Rock type	
Schist	10
Gneiss	78
Quartzite	8
Granitic	4
Miscellaneous	2

Section:



General Description: Easily accessible, large quantity.
 of wide variety of gravel and sand

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 MASSACHUSETTS
 QUADRANGLE
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Field and megascopic observations:

Station number 5
 Location: County Berkshire Town Becket Pit X Active
Inactive
 Road location Nr. E end Yokum Rd. Coordinates 73°06'40"
42°19'10"
 Geologic unit or occurrence Ice contact stratified drift in kame
 Textural description Boulder gravel Eng. Soil Type GW
 Dimensions of deposit: Areal extent 700x1000' Estimated thickness 25'
 Dimensions of pit: Areal extent 100x40' Exposed thickness 10'
 Lithologic composition (approximate %) 5% quartzite, 5% misc.
80% gneiss, 5% schist, 5% granitic, /
 Grain size: Maximum 3' Mean 1/16" Est. % of sand 30 Est. % fines 5
 Rounding subangular- Grading well Sorting medium
 Soil development -- Color --
 Oxidation or staining -- Leaching --
 Secondary deposition -- Reactive matter --

Section:

Rock type	

General Description: Small supply of readily accessible well-graded gravel with high proportion of sand.

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Becket
 QUADRANGLE

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 STATE

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