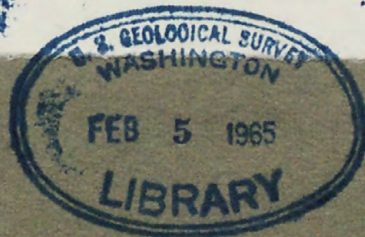


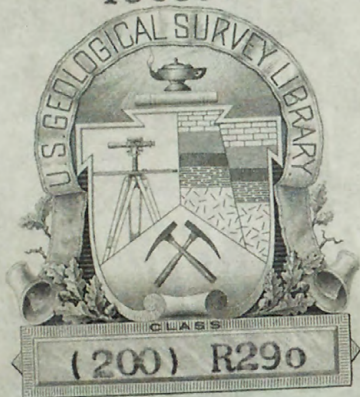
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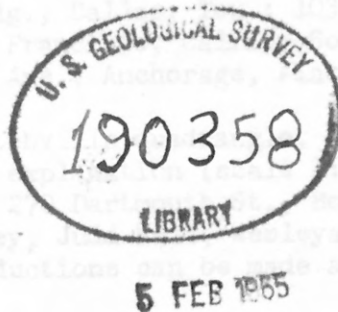
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(Surficial geologic map of the Fitchville quadrangle, New London County, Connecticut, by Fred Pessl, Jr.)



Weld - Int. 2905

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U.S. Geological Survey
Report - open
file series no. 771
GEOLOGIC DIVISION
U. S. GEOLOGICAL SURVEY
Washington, D. C.



For release JANUARY 29, 1965

The U. S. Geological Survey is releasing in open files the following reports. Copies are available for consultation in the Geological Survey libraries, 1033 GSA Bldg., Washington, D. C.; Bldg. 25, Federal Center, Denver, Colo.; 345 Middlefield Rd., Menlo Park, Calif.; and in other offices as listed:

1. Plant and miscellaneous microfossils of the Pierre Shale, by Estella Leopold and Bernadine Tschudy. 3 pl., 1 p. text, 3 p. plate explanation. Plate negatives (24" X 30") from which copies can be made at private expense are available in the Library, Bldg. 25, Federal Center, Denver, Colo.
2. Plant microfossils of the Hazard No. 7 coal, Perry County, Kentucky, by Robert M. Kosanke. 1 pl., 1 p. text; 1 p. plate explanation. On file in USGS office, 496 Southland Drive, Lexington, Ky. Plate negative (24" X 30") from which copies can be made at private expense is available in the Library, Bldg. 25, Federal Center, Denver, Colo.
3. Plant and miscellaneous microfossils from the Parachute Creek Member of the Green River Formation, by Robert H. Tschudy. 1 pl., 1 p. text, 1 p. plate explanation. Plate negative (24" X 30") from which copies can be made at private expense is available in the Library, Bldg. 25, Federal Center, Denver, Colo.
4. Preliminary report on the geology of the eastern part of the Red-Buffalo Route of Interstate Highway 70, Summit County, Colorado, by M. H. Bergendahl. 10 p., 1 fig. 468 New Custom House, Denver, Colo.
5. Terrain analysis of the lunar equatorial belt, by John F. McCauley. 44 p., 6 pl., 14 figs., 3 tables. 468 New Custom House, Denver, Colo.; 8102 Federal Office Bldg., Salt Lake City, Utah; 602 Thomas Bldg., Dallas, Tex.; 1031 Bartlett Bldg., Los Angeles, Calif.; 504 Custom House, San Francisco, Calif.; South 157 Howard St., Spokane, Wash.; 108 Skyline Bldg., 508 2nd Ave., Anchorage, Alaska.
6. Surficial geologic map of the Fitchville quadrangle, New London County, Connecticut, by Fred Pessl, Jr. 1 map and explanation (scale 1:24,000), 6 photographs, 6 gravel pit data sheets. Room 1, 270 Dartmouth St., Boston, Mass.; Connecticut Geol. and Natural History Survey, Judd Hall, Wesleyan University, Middletown, Conn. Copies from which reproductions can be made at private expense are available in the Boston office.

* * * * *

The following report is also released in open file and is available for consultation in the Geological Survey libraries at 1033 GSA Bldg., Washington, D.C., and Bldg. 25, Federal Center, Denver, Colorado:

7. The geology of the Tertiary rocks of the central and southern parts of the Rosita quadrangle, Colorado, by Peter L. Siems. 11 p., 1 map, scale 1:24,000.

* * * * *

edc
AMS

Field and megascopic observations:

Station number (1)

Location: County New London Town Bozrah Pit X Active
InactiveRoad location old Route 2, 0.25 mi. West of Fitchville. Coordinates 41°33'48", 72°9'18"Geologic unit or occurrence Name Textural description Boulder gravel-pebble sand Eng. Soil Type GWDimensions of deposit: Areal extent 800'x700' Estimated thickness 60'Dimensions of pit: Areal extent 150'x300' Exposed thickness 26'Lithologic composition (approximate %) see tableGrain size: Maximum 4' Mean 12" Est. % of sand 30 Est. % fines <1
1/2" 60Rounding subround Grading well Sorting poorSoil development stripped Color Oxidation or staining Minor iron staining in Leaching
Boulder gravelSecondary deposition Fe₂O₃ Reactive matter

Section: See photograph

Rock type
Muscovite schist
Biotite schist
Biotite gneiss
Granular schist
Hornblende gabbro
Acid igneous
Quartzite
Pegmatite
Trap
Misc.



General Description: strongly bimodal deposit with collapse & fault structures common in pebble-sand strata. Well-sorted boulder gravel overlying medium-poorly sorted pebble gravel-pebbly sand.

Color: 2.54 ^{6.5}/2

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OPEN FILE MAP

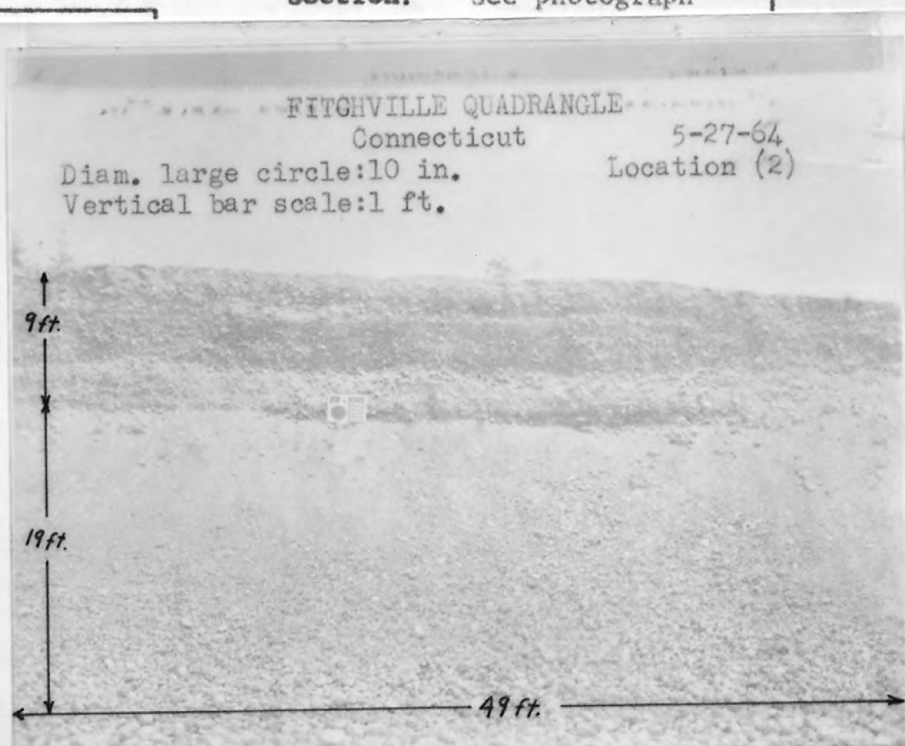
This map is preliminary and has not been approved for conformity with Geological Survey standards or nomenclature.

Fitchville
QUADRANGLEConnecticut
STATEConnecticut
PROJECT

Field and megascopic observations:

Station number (2)Location: County New London Town Norwich Pit X Active
InactiveRoad location South side Rte. 82 @ West Plain Cemetery Coordinates 41°30'20".72°07'54"Geologic unit or occurrence KameTextural description pebble-cobble gravel, pebbly sand Eng. Soil Type GPDimensions of deposit: Areal extent 1000'x800' Estimated thickness 40'Dimensions of pit: Areal extent 100'x45' Exposed thickness 28'Lithologic composition (approximate %) See table belowGrain size: Maximum 12" Mean 1" Est. % of sand 50/90 Est. % fines <1Rounding round-subround Grading medium Sorting medium-wellSoil development stripped Color Oxidation or staining moderate iron Leaching Secondary deposition Fe₂O₃ in sandy zones Reactive matter Section: See photograph

Rock type
Muscovite schist
Biotite schist
Biotite gneiss
Granular schist
Hornblende gabbro
Acid igneous
Quartzite
Pegmatite
Trap
Misc.

General Description: glaciofl.bimodal texture: 10' peb-cob gravel with irregular, discontinuous sand lenses
18' coarse, pebbly sand (slump-covered, exposed in shovel holes)

horizontal bedding

color: 2.5Y⁷/3

deposit 10% depleted.

U.S. Geological Survey

OPEN FILE MAP

This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

FITCHVILLE
QUADRANGLEConnecticut
STATEConnecticut
PROJECT

Field and megascopic observations:

Station number (3)Location: County New London Town Montville Pit X Active
InactiveRoad location Rte. 82 1/2 mi. West of Rte. 163 intersection Coordinates 41°30'6" 72°12'54"Geologic unit or occurrence Kame deltaTextural description pebble gravel/sand Eng. Soil Type GP
SWDimensions of deposit: Areal extent 1000'x800' Estimated thickness 40'Dimensions of pit: Areal extent 150'x70' Exposed thickness 20'Lithologic composition (approximate %) see tableGrain size: Maximum 6" Mean coarse sand Est. % of sand 95 Est. % fines 1-2Rounding subround-subangular Grading poor Sorting medium-wellSoil development stripped Color NAOxidation or staining Fe in pebble gravel Leaching Secondary deposition Fe₂O₃ in pebble & granule beds; some MgO staining in pebbles Reactive matter Section: See photograph

Rock type
Muscovite schist
Biotite schist
Biotite gneiss
Granular schist
Hornblende gabbro
Acid igneous
Quartzite
Pegmatite
Trap
Misc.

General Description: 3' poor sorted pebble gravel
+10' sand (granules-medium sand)

deltaic bedding, foreset beds dip 10-20° N.

color: gravel cap: 10YR 6.5/2

sands: 5Y 7/2

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Fitchville
QUADRANGLEConnecticut
STATEConnecticut
PROJECT

Field and megascopic observations:

Station number (4)Location: County New London Town Norwich Pit X Active
InactiveRoad location North side Route 32, North of Yantic Coordinates 41° 33' 48" N, 72° 07' 45" WGeologic unit or occurrence outwashTextural description pebble gravel-pebbly sand Eng. Soil Type SPDimensions of deposit: Areal extent 800'x600' Estimated thickness 50'Dimensions of pit: Areal extent 300'x200' Exposed thickness 40'Lithologic composition (approximate %) see tableGrain size: Maximum 6" Mean coarse sand Est. % of sand 85 Est. % fines <1Rounding round-subround Grading poor Sorting mediumSoil development stripped Color Oxidation or staining Leaching Secondary deposition Reactive matter FITCHVILLE
QUADRANGLE
Connecticut
STATE

Rock type	
Muscovite schist	
Biotite schist	
Biotite gneiss	
Granular schist	
Hornblende gabbro	
Acid igneous	
Quartzite	
Pegmatite	
Trap	
Misc.	



General Description: glaciofluvial terrace: irregular fluvial bedding,
cross bedding, color: 5Y⁷/3; interbedded pebble gravel &
coarse-medium sand overlying pebbly, coarse sand.

U.S. Geological Survey

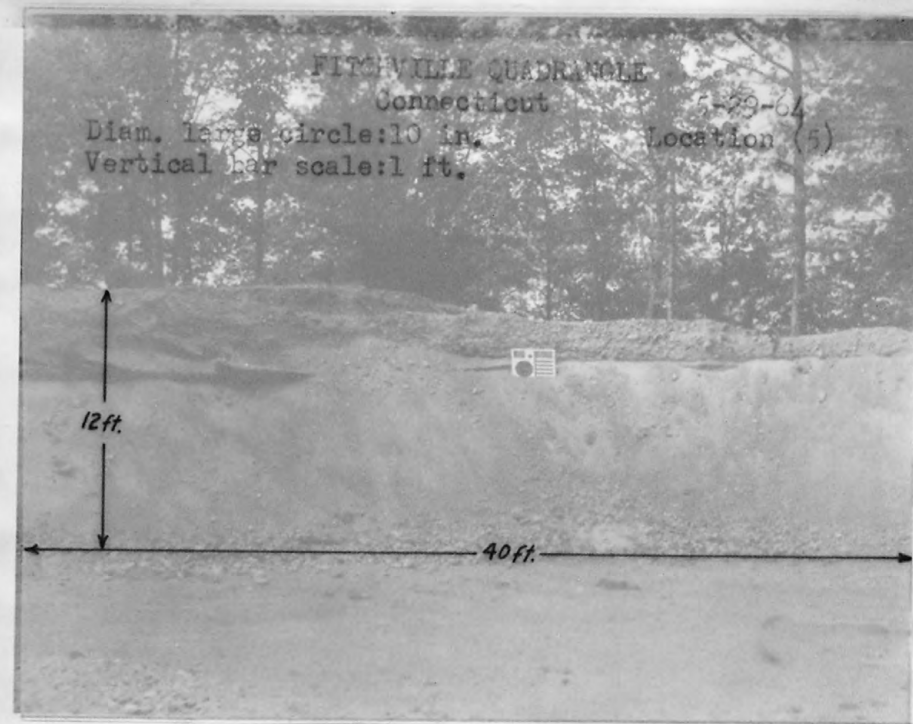
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Connecticut
PROJECT

Field and megascopic observations:

Station number (5)Location: County New London Town Colchester Pit X Active
InactiveRoad location 0.5 mi. north of Buckly Hill Road Coordinates 41°32'28", 72°14'36"Geologic unit or occurrence Kame terraceTextural description pebble-cobble gravel Eng. Soil Type SPDimensions of deposit: Areal extent 800'x600' Estimated thickness 50'Dimensions of pit: Areal extent 170'x125' Exposed thickness 15'Lithologic composition (approximate %) see tableGrain size: Maximum 14" Mean coarse sand Est. % of sand 80 Est. % fines 1-2Rounding round-subround Grading poor Sorting medium-goodSoil development stripped Color Oxidation or staining iron in gravel Leaching Secondary deposition Fe₂O₃ Reactive matter Section: See photographFITCHVILLE
QUADRANGLEConnecticut
STATE

Rock type	
Muscovite schist	
Biotite schist	
Biotite gneiss	
Granular schist	
Hornblende gabbro	
Acid Igneous	
Quartzite	
Pegmatite	
Trap	
Misc.	



General Description: pebbly sand: fluvial bedding, cross-bedding
overlain by pebble-cobble gravel with unusually strong
iron staining.
color: 10YR 6/4

U.S. Geological Survey
OPEN FILE MAP

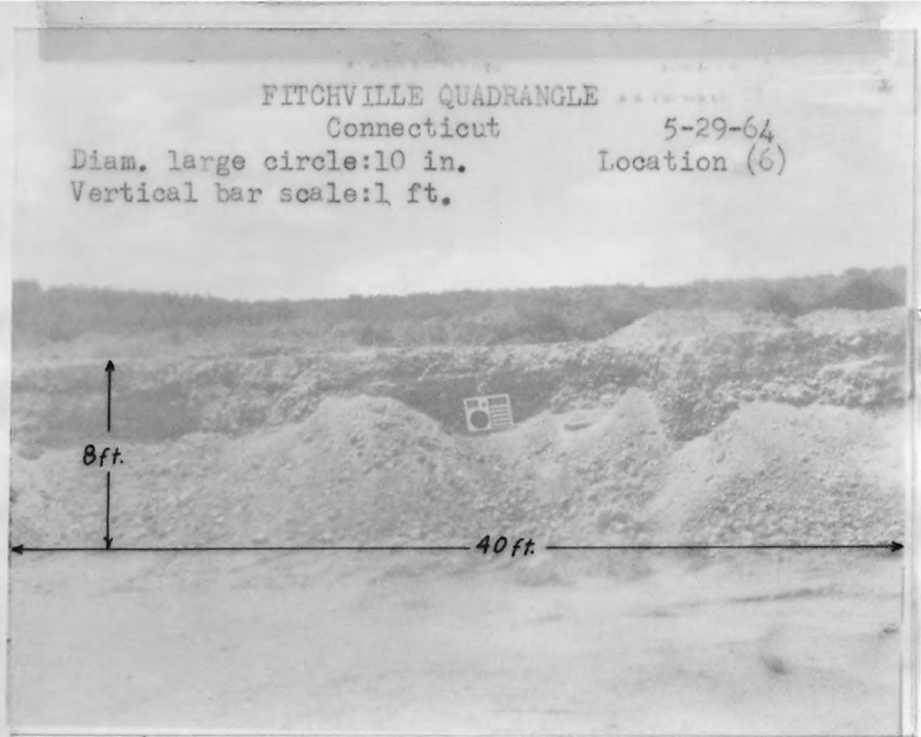
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 not been edited or reviewed for
 conformity with Geological Survey
 standards or nomenclature.

Connecticut
PROJECT

Field and megascopic observations:

Station number (6)Location: County New London Town Bozrah Pit X Active
InactiveRoad location Intersection Route 163 & Bozrah St. Coordinates 41°32'50", 72°10'12"Geologic unit or occurrence outwashTextural description pebble-cobble gravel Eng. Soil Type GWDimensions of deposit: Areal extent 800'x2200' Estimated thickness 15'Dimensions of pit: Areal extent 300'x50' Exposed thickness 8'Lithologic composition (approximate %) see tableGrain size: Maximum 12" Mean 1/2" Est. % of sand 60 Est. % fines <1Rounding good Grading medium Sorting medium-poorSoil development stripped Color Oxidation or staining strong Fe Leaching Secondary deposition Fe₂O₃ & MgO Reactive matter Section: See photograph

Rock type
Muscovite schist
Biotite schist
Biotite gneiss
Granular schist
Hornblende gabbro
Acid Igneous
Quartzite
Pegmatite
Trap
Misc.



General Description: coarse pebble-cobble gravel with interbedded, well-sorted medium sand overlying pebble gravel-pebbly sand. Strong iron staining in gravels, some Mg deposition in irregular pods near surface.

Color: 10YR⁵/6 - 10YR⁶/4U.S. Geological Survey
OPEN FILE MAP

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Fitchville
QUADRANGLEConnecticut
STATEConnecticut
PROJECT

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