U.S. Department of the Interior
National Park Service
Natural Resource Stewardship and Science Directorate
Geologic Resources Division

Gettysburg National Military Park and Eisenhower National Historic Site

GRI Ancillary Map Information Document

Produced to accompany the Geologic Resources Inventory (GRI) Digital Geologic Data for Gettysburg National Military Park and Eisenhower National Historic Site

gett_eise_geology.pdf

Version: 9/12/2021

Geologic Resources Inventory Map Document for Gettysburg National Military Park and Eisenhower National Historic Site

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Geologic Resources Inventory Map Document

Gettysburg National Military Park and Eisenhower National Historic Site, Pennsylvania

Document to Accompany Digital Geologic-GIS Data

gett_eise_geology.pdf

Version: 9/12/2021

This document has been developed to accompany the digital geologic-GIS data developed by the Geologic Resources Inventory (GRI) program for Gettysburg National Military Park and Eisenhower National Historic Site, Pennsylvania (GETT-EISE).

Attempts have been made to reproduce all aspects of the original source products, including the geologic units and their descriptions, geologic cross sections, the geologic report, references and all other pertinent images and information contained in the original publication.

This document contains the following information:

1) **About the NPS Geologic Resources Inventory Program** – A brief summary of the Geologic Resources Inventory (GRI) Program and its products. Included are web links to the GRI GIS data model, and to the GRI products page where digital geologic-GIS datasets, scoping reports and geology reports are available for download. In addition, web links to the NPS Data Store and GRI program home page, as well as contact information for the GRI coordinator, are also present.

2) **GRI Digital Maps and Source Citations** – A listing of all GRI digital geologic-GIS maps produced for this project along with sources used in their completion. In addition, a brief explanation of how each source map was used is provided.

3) **Map Unit List** – A listing of all geologic map units present on maps for this project, generally listed from youngest to oldest.

4) **Map Unit Descriptions** – Descriptions for all geologic map units. If a unit is present on multiple source maps the unit is listed with its source geologic unit symbol, unit name and unit age followed by the unit's description for each source map.

5) **Geologic Cross Sections** – Geologic cross section graphics with source geologic cross section abbreviations.

6) **Ancillary Source Map Information** – Additional source map information presented by source map.

For each source map this may include a stratigraphic column, index map, map legend and/or map notes.

7) **GRI Digital Data Credits** – GRI digital geologic-GIS data and ancillary map information document production credits.

For information about using GRI digital geologic-GIS data contact:

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About the NPS Geologic Resources Inventory Program

Background

The Geologic Resources Inventory (GRI) provides geologic map data and pertinent geologic information to support resource management and science-informed decision making in more than 270 natural resource parks throughout the National Park System. Geologic resources for management consideration include both the processes that act upon the Earth and the features formed as a result of these processes. Geologic processes include: erosion and sedimentation; seismic, volcanic, and geothermal activity; glaciation, rockfalls, landslides, and shoreline change. Geologic features include mountains, canyons, natural arches and bridges, minerals, rocks, fossils, cave and karst systems, beaches, dunes, glaciers, volcanoes, and faults.

The GRI is one of 12 inventories funded by the National Park Service (NPS) Inventory and Monitoring Program. The Geologic Resources Division of the NPS Natural Resource Stewardship and Science Directorate administers the GRI. The NPS Geologic Resources Division partners with the Colorado State University Department of Geosciences to produce GRI products. Many additional partners participate in the GRI process by contributing source maps or reviewing products.

The GRI team undertakes three tasks for each park in the Inventory and Monitoring program: (1) conduct a scoping meeting and provide a summary document, (2) provide digital geologic map data in a geographic information system (GIS) format, and (3) provide a GRI report. These products are designed and written for nongeoscientists.

Products

Scoping Meetings: These park-specific meetings bring together local geologic experts and park staff to inventory and review available geologic data and discuss geologic resource management issues. A summary document is prepared for each meeting that identifies a plan to provide digital map data for the park.

Digital Geologic Maps: Digital geologic maps reproduce all aspects of traditional paper maps, including notes, legend, and cross sections. Bedrock, surficial, and special purpose maps such as coastal or geologic hazard maps may be used by the GRI to create digital Geographic Information Systems (GIS) data and meet park needs. These digital GIS data allow geologic information to be easily viewed and analyzed in conjunction with a wide range of other resource management information data.

For detailed information regarding GIS parameters such as data attribute field definitions, attribute field codes, value definitions, and rules that govern relationships found in the data, refer to the NPS Geology-GIS Data Model document available at: https://www.nps.gov/articles/gri-geodatabase-model.htm

Geologic Reports: GRI reports synthesize discussions from the original scoping meeting, follow up conference call(s), and subsequent research. Chapters of each report discuss the geologic setting of the park, distinctive geologic features and processes within the park, highlight geologic issues facing resource managers, and describe the geologic history leading to the present-day landscape. Each report also includes a poster illustrating these GRI digital geologic-GIS data.

For a complete listing of GRI products visit the GRI publications webpage: https://go.nps.gov/gripubs. GRI digital geologic-GIS data is also available online at the NPS Data Store: https://irma.nps.gov/DataStore/Search/Quick. To find GRI data for a specific park or parks select the appropriate park(s), enter “GRI” as a Search Text term, and then select the Search button.

For more information about the Geologic Resources Inventory Program visit the GRI webpage: https://www.nps.gov/subjects/geology/gri.htm. At the bottom of that webpage is a "Contact Us" link if you need additional information. You may also directly contact the program coordinator:

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The Geologic Resources Inventory (GRI) program is funded by the National Park Service (NPS) Inventory and Monitoring (I&M) Division. Learn more about I&M and the 12 baseline inventories at the I&M webpage: https://www.nps.gov/im/inventories.htm.

GRI Digital Maps and Source Map Citations

The GRI digital geologic-GIS maps for Gettysburg National Military Park and Eisenhower National Historic Site, Pennsylvania (GETT-EISE):

Digital Geologic-GIS Map of Gettysburg National Military Park, Pennsylvania (*GRI MapCode GETT*)

The above GRI digital geologic-GIS map provides complete coverage for Gettysburg National Military Park (GETT), as well as for Eisenhower National Historic Site (EISE), and was compiled from two 15' quadrangle GRI digital geologic-GIS (component) maps listed below.

Digital Geologic-GIS Map of Eisenhower National Historic Site, Pennsylvania (*GRI MapCode EISE*)

The above map was provides complete coverage for Eisenhower National Historic Site (EISE), and was produced from the following sources. The full extent of each map plate was used and all geologic features from these map plates were captured.

> Stose, G.W. and Bascom, Florence, 1929, Fairfield-Gettysburg folio, Pennsylvania; Areal Geology of the Fairfield Quadrangle: U.S. Geological Survey, Geologic Atlas of the United States Folio GF-225, scale 1:62,500 (Fairfield 15' Quadrangle (Economic Geology)). (*GRI Source Map ID 7256*).
>
> Stose, G.W. and Bascom, Florence, 1929, Fairfield-Gettysburg folio, Pennsylvania, Structure Sections (Fairfield Quadrangle): U.S. Geological Survey, Geologic Atlas of the United States Folio GF-225, scale 1:62,500 (Fairfield 15' Quadrangle (Structure Sections)). (*GRI Source Map ID 74480*).

Digital Geologic-GIS Map of the Gettysburg 15' Quadrangle, Pennsylvania (*GRI MapCode GTTY*)

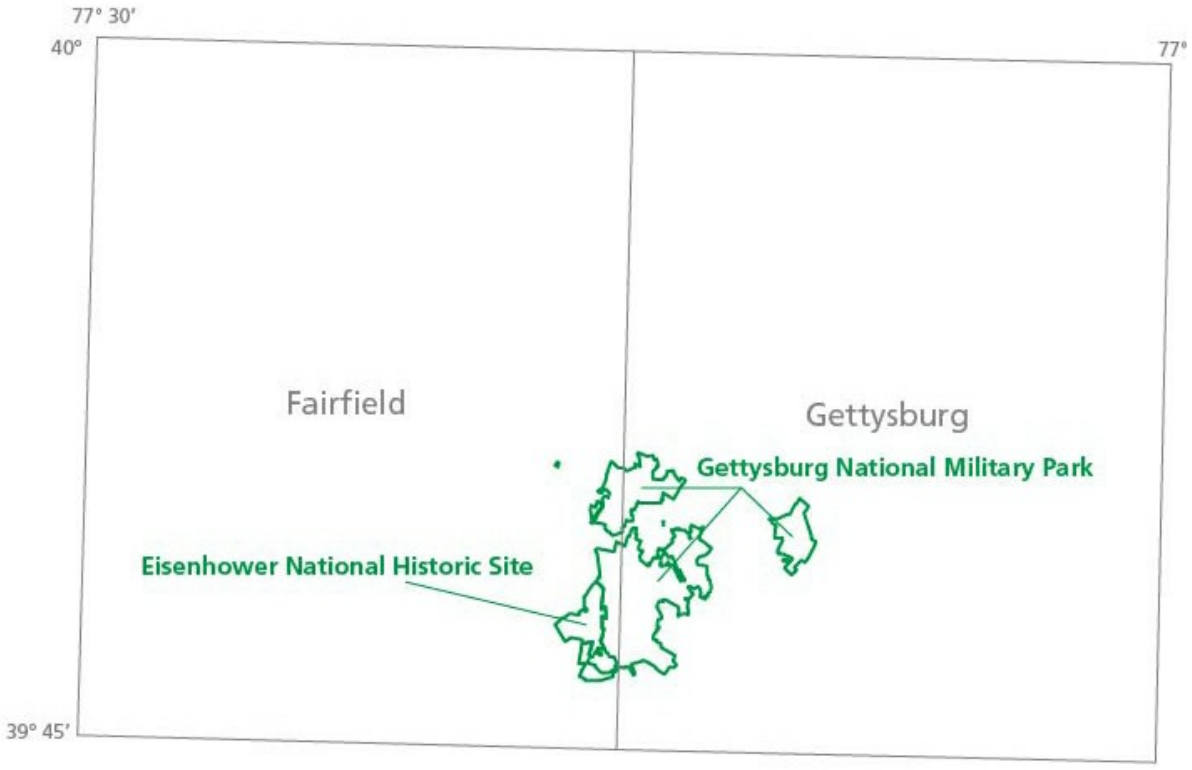
The above map was produced from the following sources. The full extent of each map plate was used and all geologic features from these map plates were captured.

> Stose, G.W., 1929, Fairfield-Gettysburg folio, Pennsylvania; Areal Geology of the Gettysburg Quadrangle: U.S. Geological Survey, Geologic Atlas of the United States Folio GF-225, scale 1:62,500 (Gettysburg 15' Quadrangle (Economic Geology)). (*GRI Source Map ID 7257*).
>
> Stose, G.W., 1929, Fairfield-Gettysburg folio, Pennsylvania, Structure Sections (Gettysburg Quadrangle): U.S. Geological Survey, Geologic Atlas of the United States Folio GF-225, scale 1:62,500 (Gettysburg 15' Quadrangle (Structure Sections)). (*GRI Source Map ID 74481*).

Additional information pertaining to each source map is also presented in the GRI Source Map Information (DEWAMAP) table included with the GRI digital geologic-GIS data.

Index Map

The following index map displays the extents of the GRI digital geologic-GIS maps produced for Gettysburg National Military Park and Eisenhower National Historic Site (GETT-EISE), which cover all of the Fairfield and Gettysburg 15' quadrangles. The boundaries for Gettysburg National Military Park and Eisenhower National Historic Site, as well as for Eisenhower National Historic Site (as of June 2021) are outlined in green.



Index map by Kajsa Holland-Goon (Colorado State University)

Map Unit List

The geologic units present in the digital geologic-GIS data produced for Gettysburg National Military Park and Eisenhower National Historic Site, Pennsylvania (GETT-EISE) are listed below. Units are listed with their assigned unit symbol and unit name (e.g., Qal - Alluvium). Units are listed from youngest to oldest. Information about each geologic unit is also presented in the GRI Geologic Unit Information (GETTUNIT) table included with the GRI digital geologic-GIS data. Some source unit symbols, names and/or ages may have been changed in this document and in the GRI digital geologic-GIS data. This was done if a unit's accepted formal name has changed since the source map was published or if an age designation needed to be standardized to conform to the GRI geologic-GIS data model specification. In this case, the unit's now recognized name and/or standardized age, was adopted. Unit symbols, names and/or ages in a unit descriptions, or on a correlation of map units or other source map figure were not edited. If a unit symbol, name or age was changed by the GRI the unit's source map symbol, name and/ or age appears with the unit's source map description.

Cenozoic Era

Quaternary Period
Qal - Alluvium
QTt - Terrace gravel and alluvial cones

Mesozoic Era

Triassic Period
TRb - Basalt flow
TRdb - Diabase
TRg - Gettysburg Formation
    TRl - Gettysburg Formation, limestone conglomerate lentil
    TRa - Gettysburg Formation, Arendtsville Fanglomerate Lentil
    TRh - Gettysburg Formation, Heidlersburg Member
TRno - New Oxford Formation
    TRna - New Oxford Formation, lower part
    TRnc - New Oxford Formation, quartzose conglomerate

Paleozoic Era

Ordovician Period
Oc - Conestoga Limestone
    Ocsd - Conestoga Limestone, sandy beds
    Ocs - Conestoga Limestone, shale and sandstone
Ob - Beekmantown (?) Limestone

Cambrian Period
Cwb - Waynesboro Formation
    Ct - Tomstown Dolomite
Clg - Ledger Dolomite
    Clm - Ledger Dolomite, marble
Ck - Kinzers Formation
Cv - Vintage Formation
Ca - Antietam sandatone

Ch - Harpers Schist
    Cma - Harpers Schist, Montalto Quartzite Member
Cw - Weverton Sandstone
Cl - Loudoun Formation
Cc - Chickies Quartzite
    Chl - Chickies Quartzite, Hellam Conglomerate Member

Proterozoic Eon

PCmb - Metabasalt
PCrb - Rhyolite breccia
PCrh - Aporhyolite
PCsq - Serecite schist and vein quartz

Map Unit Descriptions

Descriptions of all geologic map units, generally listed from youngest to oldest, are presented below. More detailed descriptions of mapped geologic units can be found in the text report accompanying the source map publication used for this project.

Qal - Alluvium (Recent)

Gravel and silt in stream bottoms; only larger areas mapped. Description from source maps: Fairfield 15' Quadrangle (Economic Geology) and Gettysburg 15' Quadrangle (Economic Geology)

QTt - Terrace gravel and alluvial cones (Pleistocene and Pliocene (?))

QTt - Terrace gravel and alluvial cones (Pliocene (?) and Pleistocene)
Gravel, cobbles, and sand on elevated terraces and benches along the larger streams and at the mouths of steep mountain streams. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

QTt - Terrace gravel and alluvial cones (Pliocene (?) and Pleistocene)
Gravel, cobbles, and sand on elevated terraces and benches along the larger streams. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

TRb - Basalt flow (Late Triassic)

Small basalt lava flow interbedded in upper part of Heidlersburg member of Gettysburg shale near Bendersville. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

TRdb - Diabase (Late Triassic)

Sills, irregular intrusive masses, and dikes. Description from source maps: Fairfield 15' Quadrangle (Economic Geology) and Gettysburg 15' Quadrangle (Economic Geology)

TRg - Gettysburg shale (Upper Triassic)

TRg - Gettysburg shale (Upper Triassic)
Chiefly red shale and soft red sandstone; middle part, Heidlersburg member, TRh, contains numerous harder white sandstone beds; Arendtsville fanglomerate lentil, unassorted fragments of quartzite and metarhyolite, TRa, and limestone conglomerate lentil, TRl, at the top in places; shale adjacent to intrusive diabase metamorphosed to hard dense dark-purple and black argillite, and red sandstone altered to hard white sandstone. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

TRg - Gettysburg shale (Upper Triassic)
Chiefly red shale and soft red sandstone; middle part, Heidlersburg member, TRh, contains numerous harder white sandstone beds; Arendtsville fanglomerate lentil, unassorted fragments of quartzite and metarhyolite, TRa, at the top in places; shale adjacent to intrusive diabase metamorphosed to hard dense dark-purple and black argillite, and red sandstone altered to hard white sandstone. Description

from source map: Gettysburg 15' Quadrangle (Economic Geology)

TRl - Gettysburg shale, limestone conglomerate lentil (Upper Triassic)

At the top of Gettysburg shale in places. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

TRa - Gettysburg shale, Arendtsville fanglomerate lentil (Upper Triassic)

Unassorted fragments of quartzite and metarhyolite. Description from source map: Fairfield 15' Quadrangle (Economic Geology) and Gettysburg 15' Quadrangle (Economic Geology)

TRh - Gettysburg shale, Heidlersburg member (Upper Triassic)

Contains numerous harder white sandstone beds. Description from source map: Fairfield 15' Quadrangle (Economic Geology) and Gettysburg 15' Quadrangle (Economic Geology)

TRno - New Oxford formation (Upper Triassic)

Red shale and sandstone with beds of hard light-colored micaceous sandstone and conglomerate, lower part, TRna, containing many interbedded layers of light-colored, micaceous arkose, and thin beds of quartzose conglomerate, TRnc. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

TRna - New Oxford formation, lower part (Upper Triassic)

TRna - New Oxford formation, lower part (Upper Triassic)
Containing many interbedded layers of light-colored, micaceous arkose. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

TRnc - New Oxford formation, quartzose conglomerate (Upper Triassic)

Thin beds of quartzose conglomerate. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

Oc - Conestoga limestone (Lower (?) Ordovician)

Thin-bedded, impure, blue limestone; dark argillaceous shale and earthy gray sandstone, Ocs, at base; sandy beds weathering to sand, Ocsd. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

Ocsd - Conestoga limestone, sandy beds (Lower (?) Ordovician)

Sandy beds weathering to sand. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

Ocs - Conestoga limestone, shale and sandstone (Lower (?) Ordovician)

Dark argillaceous shale and earthy gray sandstone. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

Ob - Beekmantown (?) limestone (Lower (?) Ordovician)

Dolomite, impure laminated blue limestone, marble, and earthy gray limestone; may include some unseparated Conococheague or Elbrook limestone of Cambrian age. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

Cwb - Waynesboro formation (Lower and Middle (?) Cambrian)

Gray sandstone, dolomite, limestone, and purple sandy shale. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

Ct - Tomstown dolomite (Lower Cambrian)

Coarse gray dolomite, blue limestone, and shale. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

Clg - Ledger dolomite (Lower Cambrian)

Coarse gray pure dolomite, with pure white and blue limestone marble, Clm, in places. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

Clm - Ledger dolomite, marble (Lower Cambrian)

Pure white and blue limestone marble. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

Ck - Kinzers formation (Lower Cambrian)

Chiefly gray shale. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

Cv - Vintage formation (Lower Cambrian)

Dark impure dolomite. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

Ca - Antietam sandatone (Lower Cambrian)

Ca - Antietam sandstone (Lower Cambrian)
White scolithus-bearing sandstone and vitreous quartzite; rusty banded fossiliferous beds at top. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

Ca - Antietam sandstone (Lower Cambrian)
Rusty banded fossiliferous sandstone, weathering porous. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

Ch - Harpers schist (Lower Cambrian)

Ch - Harpers schist (Lower Cambrian)
Dark sandy slate and fissile schist or phyllite. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

Ch - Harpers schist (Lower Cambrian)
Gray sandy schist and buff-weathering slate. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

Cma - Harpers schist, Montalto quartzite member (Lower Cambrian)

White quartzite containing scolithus tubes. Chiefly quartzite at north. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

Cw - Weverton Sandstone (Lower Cambrian)

Gray and purple feldspathic sandstone and conglomerate. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

Cl - Loudoun formation (Lower Cambrian)

Soft purplish arkosic sandstone and conglomerate and dark banded sericite schist. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

Cc - Chickies quartzite (Lower Cambrian)

Vitreous, white, scolithus-bearing quartzite, with basal conglomerate, Chl, of glassy quartz pebbles and grains. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

Chl - Chickies quartzite, Hellam Conglomerate Member (Lower Cambrian)

Conglomerate of glassy quartz pebbles and grains. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

PCmb - Metabasalt (Precambrian)

Amb - Metabasalt (Algonkian)
Basalt flows, altered to schistose greenstone and epidote rock. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

Amb - Metabasalt (Algonkian)
Basalt flows altered to greenstone. Description from source map: Gettysburg 15' Quadrangle (Economic Geology)

PCrb - Rhyolite breccia (Precambrian)

Arb - Rhyolite breccia (Algonkian)
Volcanic fragmental material, chiefly coarse but includes some fine whetstone. Description from source map: Fairfield 15' Quadrangle (Economic Geology)

PCrh - Aporhyolite (Precambrian)

Arh - Aporhyolite (Algonkian)
Rhyolite flows altered to purplish felsitic rock. Description from source map: Fairfield 15' Quadrangle (Economic Geology) and Gettysburg 15' Quadrangle (Economic Geology)

PCsq - Serecite schist and vein quartz (Precambrian)

Asq - Serecite schist and vein quartz (Algonkian)
White, greenish, and red fine-grained schist, probably altered tuff; called "soapstone". Description from source map: Fairfield 15' Quadrangle (Economic Geology)

Geologic Cross Sections

The geologic cross sections present in the GRI digital geologic-GIS data produced for Gettysburg National Military Park and Eisenhower National Historic Site, Pennsylvania (GETT-EISE) are presented below. Note that some cross section abbreviations (e.g., A - A') may have been changed from their source map abbreviation in the GRI data so that each cross section abbreviation in the GRI data is unique. Cross section graphics were scanned at a high resolution and can be viewed in more detail by zooming in (if viewing the digital format of this document).

Cross Section A-A'



Graphic from source map: Fairfield 15' Quadrangle (Structure Sections).

Cross Section B-B'



Graphic from source map: Fairfield 15' Quadrangle (Structure Sections).

Cross Section C-C'



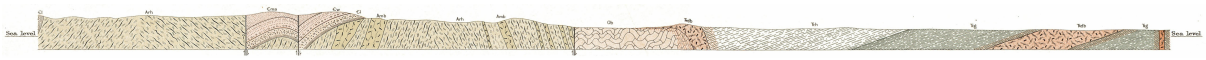
Graphic from source map: Fairfield 15' Quadrangle (Structure Sections).

Cross Section D-D'



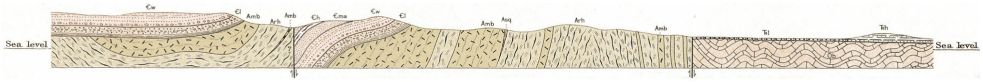
Graphic from source map: Fairfield 15' Quadrangle (Structure Sections).

Cross Section E-E'



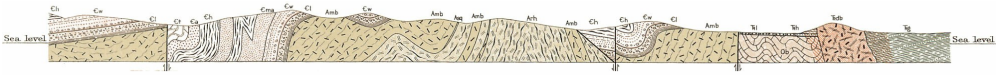
Graphic from source map: Fairfield 15' Quadrangle (Structure Sections).

Cross Section F-F'



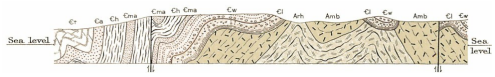
Graphic from source map: Fairfield 15' Quadrangle (Structure Sections).

Cross Section G-G'



Graphic from source map: Fairfield 15' Quadrangle (Structure Sections).

Cross Section H-H'



Graphic from source map: Fairfield 15' Quadrangle (Structure Sections).

Cross Section I-I'



Graphic from source map: Gettysburg 15' Quadrangle (Structure Sections). Cross section A-A' on source map.

Cross Section J-J'



Graphic from source map: Gettysburg 15' Quadrangle (Structure Sections). Cross section B-B' on source map.

Cross Section K-K'



Graphic from source map: Gettysburg 15' Quadrangle (Structure Sections). Cross section C-C' on source map.

Cross Section L-L'



Graphic from source map: Gettysburg 15' Quadrangle (Structure Sections). Cross section D-D' on source map.

Cross Section M-M'



Graphic from source map: Gettysburg 15' Quadrangle (Structure Sections). Cross section E-E' on source map.

Ancillary Source Map Information

The following sections present ancillary source map information associated with source maps used for this project. Additionally, report text accompanying the source map publication used for this project includes an introduction to the general geology and geography of the mapped area, a discussion of the area's stratigraphy (including detailed rock unit descriptions) and geologic structure, and a section describing the economic geology of the mapped area.

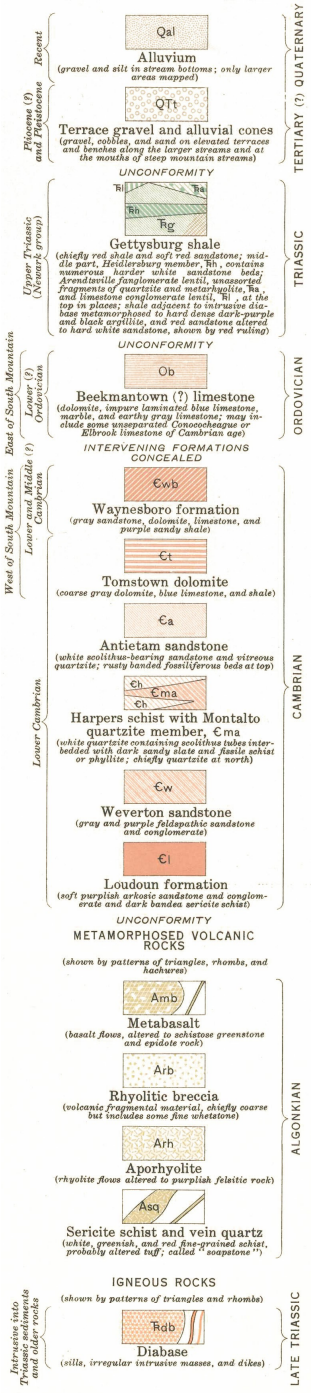
Fairfield 15' Quadrangle (Economic Geology)

The formal citation for this source.

> Stose, G.W. and Bascom, Florence, 1929, Fairfield-Gettysburg folio, Pennsylvania; Areal Geology of the Fairfield Quadrangle: U.S. Geological Survey, Geologic Atlas of the United States Folio GF-225, scale 1:62,500 (*GRI Source Map ID 7256*).

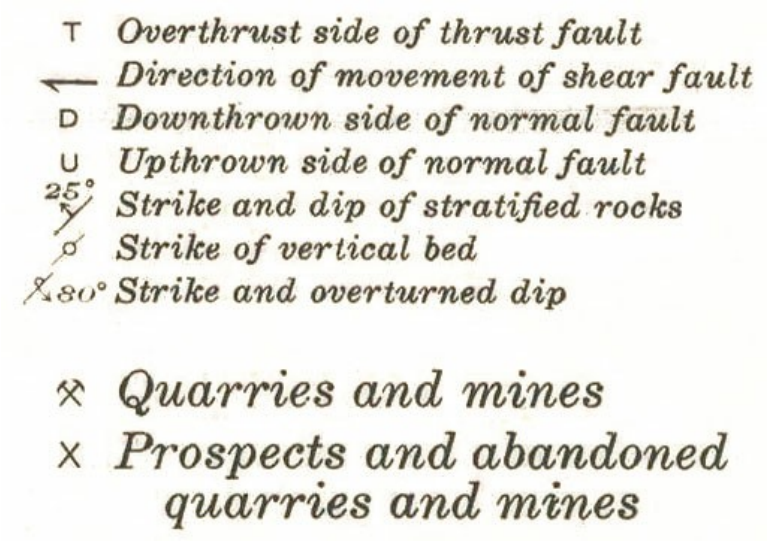
Prominent graphics associated with this source.

Correlation of Map Units



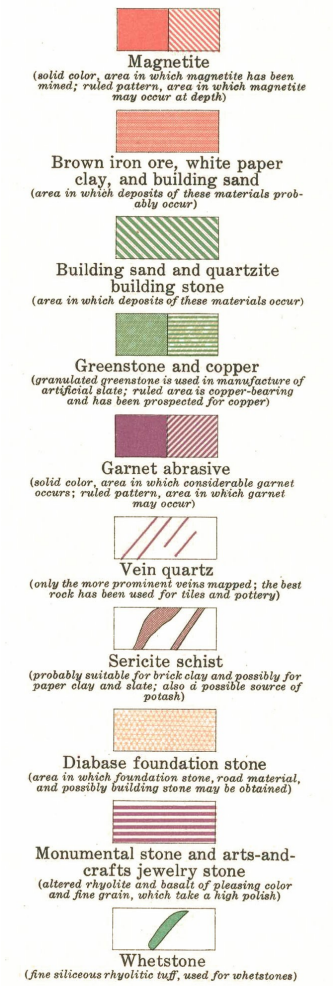
Graphic from source map: Fairfield 15' Quadrangle (Economic Geology)

Map Legend



Graphic from source map: Fairfield 15' Quadrangle (Economic Geology)

Economic Legend



Graphic from source map: Fairfield 15' Quadrangle (Economic Geology)

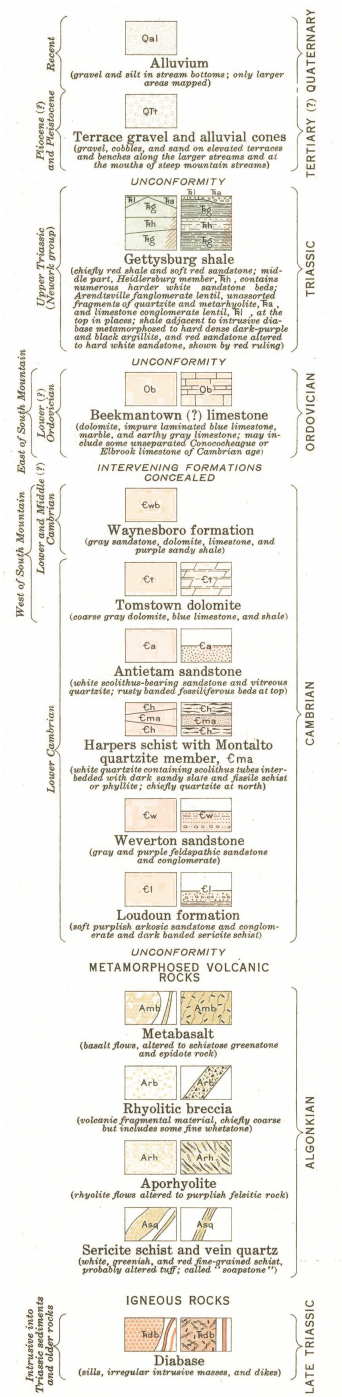
Fairfield 15' Quadrangle (Structure Sections)

The formal citation for this source.

> Stose, G.W. and Bascom, Florence, 1929, Fairfield-Gettysburg folio, Pennsylvania, Structure Sections (Fairfield Quadrangle): U.S. Geological Survey, Geologic Atlas of the United States Folio GF-225, scale 1:62,500 (*GRI Source Map ID 74480*).

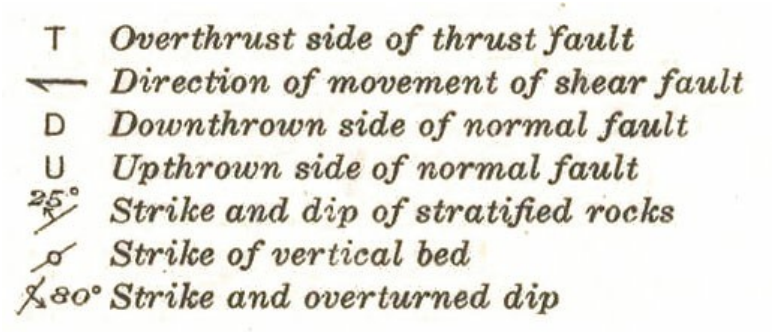
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Correlation of Map Units



Graphic from source map: Fairfield 15' Quadrangle (Structure Sections)

Map Legend



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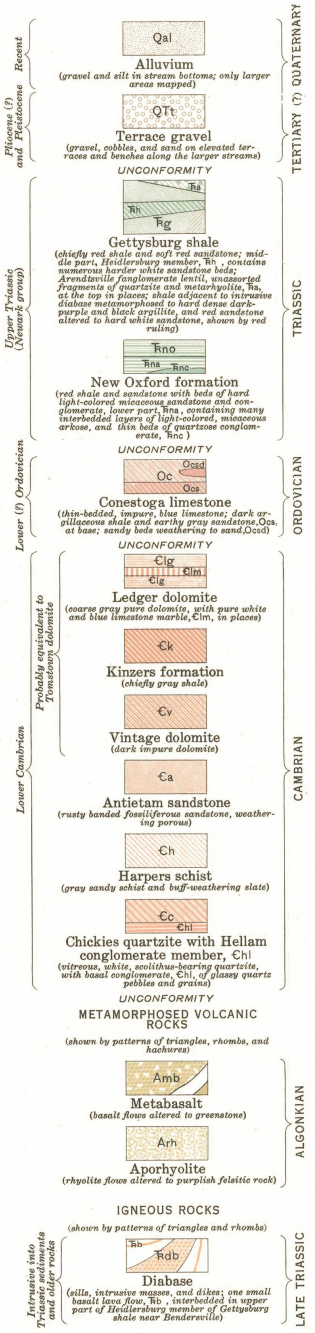
Gettysburg 15' Quadrangle (Economic Geology)

The formal citation for this source.

> Stose, G.W., 1929, Fairfield-Gettysburg folio, Pennsylvania; Areal Geology of the Gettysburg Quadrangle: U.S. Geological Survey, Geologic Atlas of the United States Folio GF-225, scale 1:62,500 (*GRI Source Map ID 7257*).

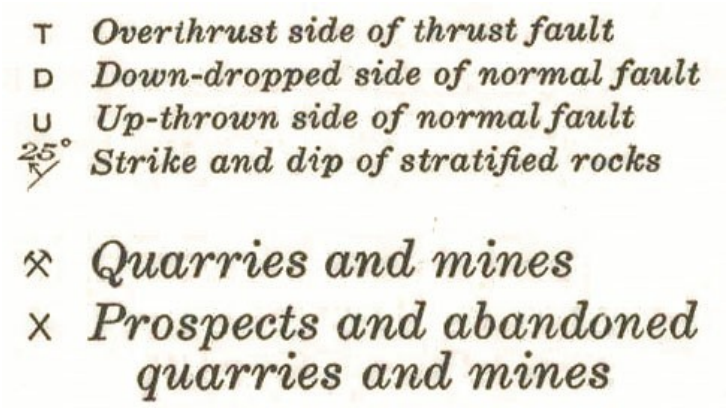
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Correlation of Map Units



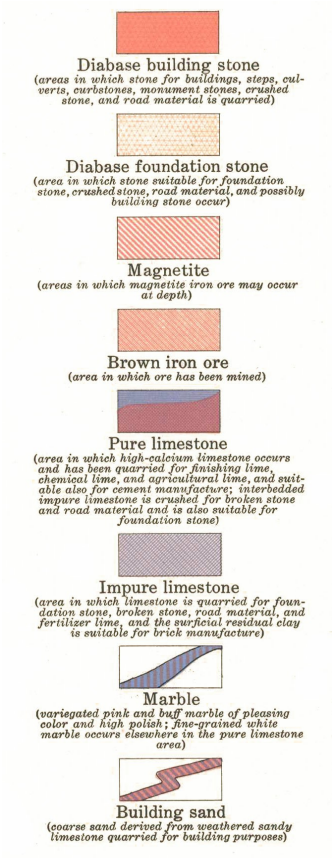
Graphic from source map: Gettysburg 15' Quadrangle (Economic Geology)

Map Legend



Graphic from source map: Gettysburg 15' Quadrangle (Economic Geology)

Economic Legend



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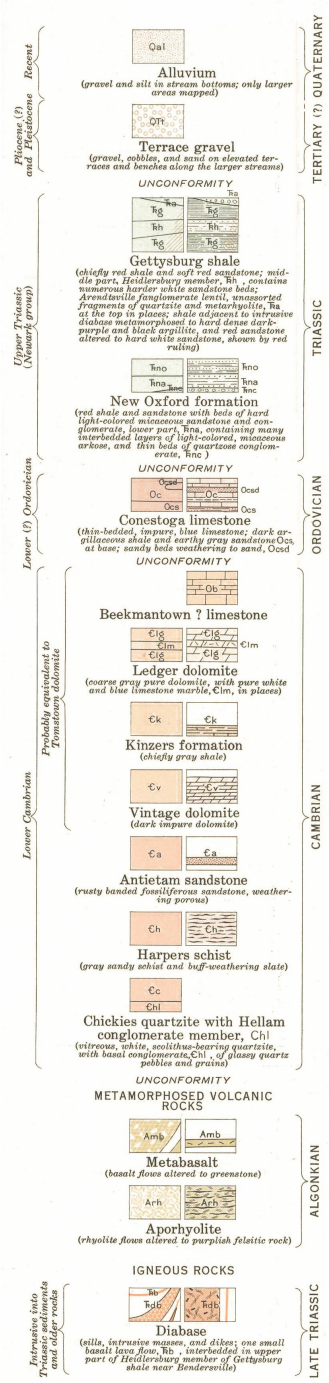
Gettysburg 15' Quadrangle (Structure Sections)

The formal citation for this source.

Stose, G.W., 1929, Fairfield-Gettysburg folio, Pennsylvania, Structure Sections (Gettysburg Quadrangle): U.S. Geological Survey, Geologic Atlas of the United States Folio GF-225, scale 1:62,500 (*GRI Source Map ID 74481*).

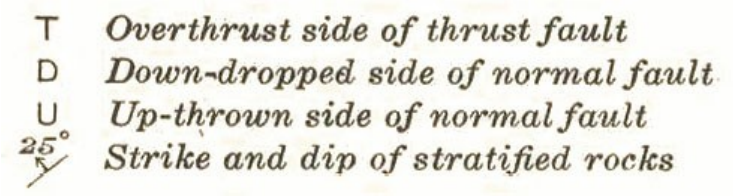
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Correlation of Map Units



Graphic from source map: Gettysburg 15' Quadrangle (Structure Sections)

Map Legend



Graphic from source map: Gettysburg 15' Quadrangle (Structure Sections)

GRI Digital Data Credits

This document was developed and completed by Kajsa Holland-Goon (Colorado State University) for the NPS Geologic Resources Division (GRD) Geologic Resources Inventory (GRI) Program. Quality control of this document by James Chappell and Stephanie O'Meara (Colorado State University).

The information in this document was compiled from GRI source maps and is intended to accompany the digital geologic-GIS maps and other digital data for Gettysburg National Military Park and Eisenhower National Historic Site, Pennsylvania (GETT-EISE) developed by James Chappell and Stephanie O'Meara (see the GRI Digital Maps and Source Map Citations section of this document for all sources used by the GRI in the completion of this document and related GRI digital geologic-GIS maps).

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