

Geologic Map of Gila Cliff Dwellings National Monument

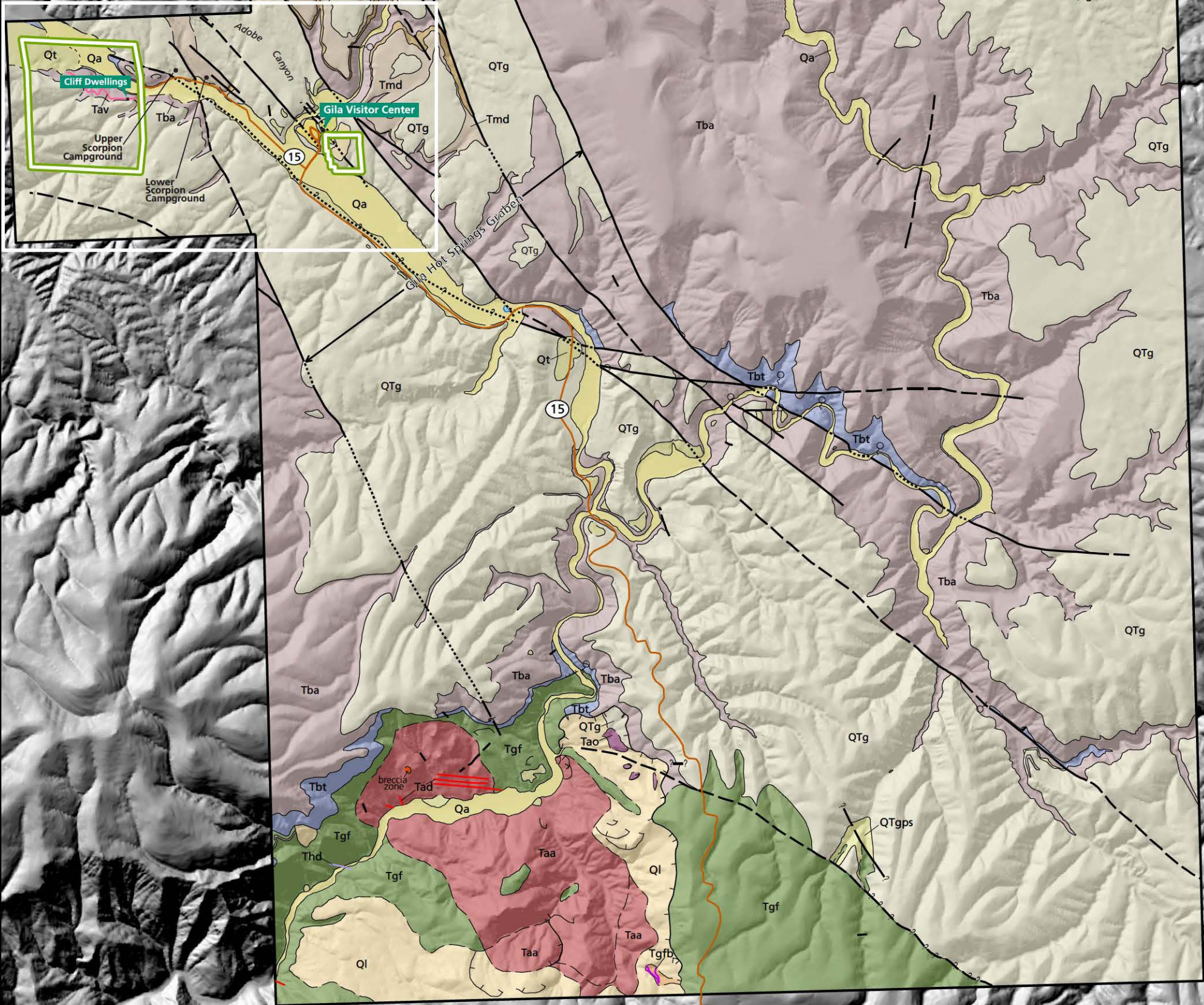
New Mexico

National Park Service
U.S. Department of the Interior
Geologic Resources Inventory



Map 1

Map 2 Extent



NPS Boundary



Infrastructure

- point of interest
- road

Geologic Point Features

- individual spring

Linear Geologic Units

- Tav - Volcaniclastic rocks of Adobe Canyon (Oligocene to Miocene), known or certain
- Tgfb - Lava flows and associated volcanic rocks of Gila Flat, basaltic lava flows (Oligocene), known or certain

Volcanic Line Features

- caldera boundary, known or certain
- caldera boundary, concealed

Hazard Feature Lines

- landslide escarpment/scarp

Linear Dikes

- Tad - Andesite dikes (Oligocene?), known or certain
- Thd - Andesite dikes, hornblende bearing (Oligocene?), known or certain
- Thd - Andesite dikes, hornblende bearing (Oligocene?), concealed

Faults

- unknown offset/displacement, solid where known, dashed where approximate, dotted where concealed, and '?' indicates queried

Deformation Area Boundaries

- approximate

Deformation Areas

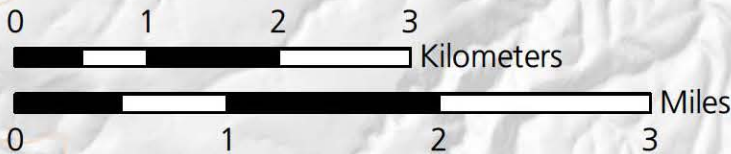
- breccia zone

Geologic Contacts

- solid where known, dashed where approximate, dotted where concealed, and '?' indicates queried

Geologic Units

- water
- Qa Alluvium (Holocene)
- Qf Alluvial fan deposit (Holocene)
- Ql Landslide deposits (Holocene and/or Pleistocene)
- Qt Alluvial terrace deposits (Holocene? and Pleistocene)
- Qt1 Highest perched terrace deposits (Holocene? and Pleistocene)
- Qt2 Middle perched terrace deposits (Pleistocene)
- Qt3 Lowest perched terrace deposits (Pleistocene)
- QTg Gila Group, aka Gila Conglomerate (Oligocene to Miocene)
- QTgps Gila Group, sandstone facies (Oligocene to Miocene)
- Tmd Andesitic to dacitic lava flows of the Middle Fork Gila River (Oligocene to Miocene)



- Tav Volcaniclastic rocks of Adobe Canyon (Oligocene to Miocene)
- Tba Bearwallow Mountain Andesite (Oligocene to Miocene)
- Tbt Bloodgood Canyon Tuff (Oligocene)
- Tmh Andesite of Murtocks Hole (Oligocene)
- Tsp Shelly Peak Tuff (Oligocene)
- Tao Older ignimbrites, undivided (Oligocene)
- Tgf Lava flows and associated volcanic rocks of Gila Flat (Oligocene)
- Tgfss Lava flows and associated volcanic rocks of Gila Flat, sandstone member (Oligocene)
- Taa Rhyolite of the Alum Mountain eruptive center (Oligocene)

This map was produced by James Winter (Colorado State University) in August 2014. It is an overview of compiled geologic data prepared as part of the NPS Geologic Resources Inventory. This map is not a substitute for site-specific investigations.

The source map used in creation of the digital geologic data was:

Ratté, J. C., D. L. Gaskill, and J. R. Chappell. 2014. Geologic map of the Gila Hot Springs 7.5' quadrangle and the Cliff Dwellings National Monument, Catron and Grant counties, New Mexico (scale 1:24,000). Open-File Report OFR-2014-1036. US Geological Survey, Denver, Colorado.

As per source map scale and U.S. National Map Accuracy Standards, geologic features represented here are within 12 m (40 ft) of their true location.

All digital geologic data and publications prepared as part of the Geologic Resources Inventory are available at the NPS Integrated Resource Management Applications Portal (IRMA): <https://irma.nps.gov/App/Reference/Search>. Enter "GRI" as the search text and select a park from the unit list.

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Map 2

