Geologic Map of Chaco Culture National Historical Park

New Mexico

National Park Service
U.S. Department of the Interior

Geologic Resources Inventory
Natural Resource Stewardship and Science

North
0 1 2
Kilometers
Miles
0 0.5 1

This map was produced by Kari Lanphier and Georgia Hybels (Colorado State University) in September 2015. 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 maps used in creation of the digital geologic data product include U.S. Geological Survey Publications (see Geologic Map Data section for specific sources).

Minor inaccuracies may exist regarding the location of geologic features relative to other geologic or geographic features on the figure. Based on the source maps scales of 1:24,000, 62,500, and 1:100,000 and U.S. National Map Accuracy Standards, geologic features represented here are within 12 m (40 ft), 31 m (104 ft), and 50 m (166 ft) (horizontally), respectively, 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): http://irma.nps.gov/App/Reference/Search. Enter "GRI" as the search text and select a park from the unit list.

NPS Boundary

Infrastructure
- point of interest
- river
- road

Map Symbology
- fold plunge arrow head
- U upthrown block
- D downthrown block
- ball and bar on downthrown block
- anticline symbol

Folds
- anticline, solid where known or certain; dashed where approximate

Faults
- thrust fault, known or certain
- normal fault, solid where known or certain; dashed where approximate; dotted where concealed; short dashed where inferred; ? indicates queried
- unknown offset/displacement, dashed where approximate; dotted where concealed, ? indicates queried

Geologic Line Features
- resistant bed, known or certain
- linear feature, known or certain

Linear Geologic Units, Upper Cretaceous
solid where known or certain; dashed where inferred; dotted where concealed
- Kfr - Fruitland Formation coal zone, known or inferred
- Kfr - Fruitland Formation coal zone, approximate or concealed
- Kfr3 - Fruitland 3 coal bed
- Kfr2 - Fruitland 2 coal bed
- Kfr1 - Fruitland 1 coal bed
- Kch - Cliff House Sandstone
- Kchwl - Cliff House Sandstone, white to light-gray sandstone, lower unit
- Kmfaz - Menefee Formation, Allison Member, coal zone

Menefee Formation, Allison Member, La Vida Beds of Miller 1984
- Kmfavsd - sandstone dike
- Kmfavw4 - uppermost coal bed W4
- Kmfavw3 - uppermost coal bed W3
- Kmfavw2 - upper coal bed W2
- Kmfavn2 - upper coal bed N2
- Kmfave2 - upper coal bed E2
- Kmfavw1 - lower coal bed W1
- Kmfavn1 - lower coal bed N1
- Kmfave1 -lower coal bed E1
- Kmfz - Menefee Formation coal zone

Geologic Units
- water
- Qaf1 Earth dam (Holocene)
- Qsl Soil, large area (Holocene)
- Qss Soil, small area (Holocene)
- Qsb Jumbled fine-grained sandstone blocks (Holocene)
- Qs Surficial deposits (Quaternary)
- Qae Alluvium and eolian deposits (Holocene and Pleistocene?)
- Qls Landslide deposit (Holocene)
- Qfd Fan deposit (Holocene)
- Qswd Slope-wash deposit (Holocene)
- Qal Alluvium (Holocene)
- Qa1 Alluvial deposits, Unit 1 (upper Holocene)
- Qn Naha Alluvium of Hack (1941) (Holocene)
- Qnt Naha and Tsegi Alluviums of Hack (1941) (upper Holocene)
- Qa2 Alluvial deposits, Unit 2 (Holocene)
- Qsd Dune deposit (Holocene)
- Qsw Sheetwash alluvium (Holocene to upper Pleistocene)
- Qes Eolian sand (upper Holocene to upper Pleistocene)
- Qess Eolian sand and soil (upper Holocene to upper Pleistocene)
- Qoe Older eolian deposits (Holocene to Pleistocene)
- Qf Alluvial fan deposits (Holocene and Pleistocene?)
- Qc Colluvium (Holocene and Pleistocene)
- Qj Jeddito Alluvium of Hack (1941) (lower Holocene to upper Pleistocene)
- Qgs7 Gravelly sand (upper Pleistocene)
- Qgs6 Gravelly sand (upper Pleistocene)
- Qgs5 Gravelly sand (upper Pleistocene)
- Qg Gravel (Pleistocene)

Gravel Deposit North of Chaco River
- Qtl low terrace deposit (Pleistocene)
- Qti intermediate terrace deposit (Pleistocene)
- Qth high terrace deposit (Pleistocene)

Upper Cretaceous Units
- Kk Kirtland Shale
- Kf Fruitland Formation
- Kpc Pictured Cliffs Sandstone
- Kl Lewis Shale
- Klt Tongue of Lewis Shale

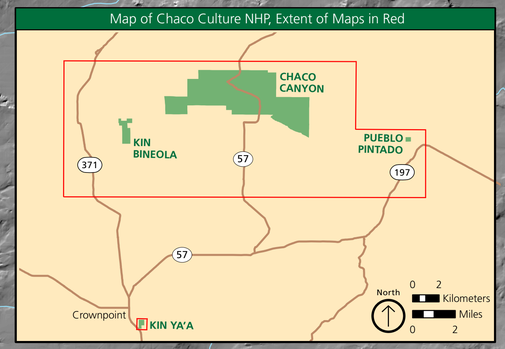
Cliff House Sandstone-Upper Cretaceous
- Kch Cliff House Sandstone
- Kchu upper sandstone/bed
- Kchwu white to light-gray sandstone, upper unit
- Kchwl white to light-gray sandstone, lower unit
- Kchm middle sandstone
- Kchi intermediate unit
- Kchl lower sandstone

Menefee Formation-Upper Cretaceous
- Kmf Menefee Formation
- Kmft Tongues of Menefee Formation
- Kmfa Allison Member
- Kmfav Allison Member, La Vida Beds of Miller (1984)
- Kmfaj Allison Member, Juans Lake Beds of Miller (1984)
- Kmfal lower part of Allison Member

Crevasse Canyon Formation-Upper Cretaceous
- Kcg Gibson Coal Member
- Kcda Dalton Sandstone Member

CHACO CANYON
KIN BINEOLA
PUEBLO PINTADO
Peñasco Blanco
Casa Chiquita
Pueblo Alto Complex
Kin Kletso
Pueblo del Arroyo
Pueblo Bonito
Chetro Ketl
Hungo Pavi
Casa Rinconada Community
Tsin Kletsin
Una Vida
Visitor Center
Wijiji
Kin Klizhin
Fajada Butte 6623ft 2019m
Bonita Anticline
Juan's Lake
Kimmenoli Wash
Chaco River
Chaco Wash
Escavada Wash
Gallo Wash
Fajada Wash
Kin Klizhin Wash
Kimmenlabi Wash
CLYS CANYON
MOCKINGBIRD CANYON
WERITOS RINCON
SOUTH GAP
CHACRA MESA
SOUTH MESA
WEST MESA
371
57
197

Map of Chaco Culture NHP, Extent of Maps in Red



Map of KIN YA'A

