

**SEDIMENTARY ROCKS**

Aluminum	Aluminum	Aluminum	Rock-glacier deposits	Coluvial sand and gravel
Landslide deposits	Till	Outwash gravel	Terrace gravel	Boulder deposits
Podzol gravel	UNCONFORMITY	UNCONFORMITY	UNCONFORMITY	UNCONFORMITY
Flagstaff limestone	White locally fossiliferous limestone, white halite tuff, calcareous sedimentary rocks, and conglomerate, thickness 20 feet or more	Mesaverde formation	Thick-bedded light-yellow sandstone and thin interbedded dark-gray shale, thickness more than 30 feet	Maunk member
Maunk member	Black-gray and black carbonaceous and sandy shale, interbedded light-yellow sandstone and shale, sandstone, thickness 60 to 80 feet	Emery sandstone member	Thin to thick-bedded light-yellow lenticular sandstone and interbedded carbonaceous shale and impure coal, thickness about 250 feet	Shale Gale shale member
Shale Gale shale member	Black-gray and black carbonaceous shale interbedded with thin light-yellow sandstone beds, thickness about 240 feet	UNCONFORMITY	UNCONFORMITY	UNCONFORMITY

**EXPLANATION**

**CRETACEOUS**

**Upper Cretaceous**

- Ferris sandstone member**  
Thin to thick-bedded light-yellow lenticular sandstone and interbedded carbonaceous shale and impure coal, thickness about 250 feet
- Tanah-shale member**  
Black-gray and black carbonaceous shale interbedded with thin beds of light-yellow sandstone, fossiliferous, thickness about 250 feet
- Hakata sandstone**  
Light-yellow lenticular sandstone and conglomerate with interbedded carbonaceous shale and impure coal locally, fossiliferous, thickness 0 to about 50 feet
- Brushy Basin shale member**  
Verticillate claystone containing some white, gray, and buff sandstone and conglomerate lenses, thickness about 10 to about 25 feet
- Salt Wash sandstone member**  
Thick cross-bedded lenticular sandstone and conglomeratic sandstone beds including some unsorted claystone lenses, thickness generally about 200 feet
- Summerville formation**  
Thin-bedded reddish-brown shale and siltstone with sandstone and thin layers of gray, cross-bedded fine-grained sandstone, thickness 15 to 200 feet
- Curtis formation**  
Thin to thick-bedded medium-gray fine-grained sandstone and siltstone, maximum thickness 90 feet
- Entrada sandstone**  
Thin to thick-bedded reddish-brown sandstone and siltstone, thickness 25 to 70 feet
- Clared formation**  
Yellow to grayish-orange very fine to fine-grained sandstone, green and red calcareous claystone, gray fossiliferous limestone, white to gray calcareous fossiliferous siltstone, thickness variable more than 40 feet to almost 200 feet
- Navy's sandstone**  
White to yellow cross-bedded fine-grained sandstone, thickness 80 to 120 feet
- Kayenta formation**  
Irregularly bedded white to reddish-brown siltstone, conglomerate, and gray fine to medium-grained sandstone, thickness about 250 feet
- Wingate sandstone**  
Very fine-grained reddish-brown cliff-forming sandstone, massive and cross-bedded, thickness generally about 250 feet

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**Lower Cretaceous**

- Moenkopi formation**  
The upper part consists of chiefly reddish-brown and some yellow thin-bedded claystone, siltstone, sandstone and very fine to fine-grained sandstone with gypsum and pebbles in thin layers and nodules, and the lower part consists of yellow to reddish-brown thick-bedded siltstone and including at the top the Shinarump member consisting of thin to medium bedded fossiliferous yellowish gray limestone and dolomite, 5m; upper short-pile conglomerate locally at base, thickness 70 to 90 feet
- Kahala limestone**  
White calcareous siltstone and silty, locally fossiliferous, limestone with many thin layers and nodules, thin cross-bedded white fine-grained sandstone beds particularly in lower part; some dolomite, thickness 25 to 30 feet
- Coconino sandstone**  
Light-yellow very fine to fine-grained sandstone, massive cross-bedded, thickness more than 100 feet

**IGNEOUS ROCKS**

- Ti** Chiefly lava flows with interbedded sedimentary rocks
- Is** Chiefly igneous sedimentary rocks with interbedded lava flows
- Im** Intrusive rocks locally with movement as indicated

**CONTACT**

- Dashed where approximately located
- Fault
- Dashed where approximately located; dotted where concealed
- U, upthrown side; D, downthrown side
- Strike and dip of beds
- Strike of vertical beds
- Horizontal beds
- Structure contour
- Drawn on top of Chino formation. Dashed where approximately located. Contour interval 200 feet except locally where higher interval accentuates closure. Datum is mean sea level
- Limit of area covered by Wisconsin geologic map on scoured side
- Direction of ice flow
- Prospect
- Shaft
- Mine adit
- Quarry or gravel pit
- Dry hole

**JURASSIC**

**Upper Jurassic**

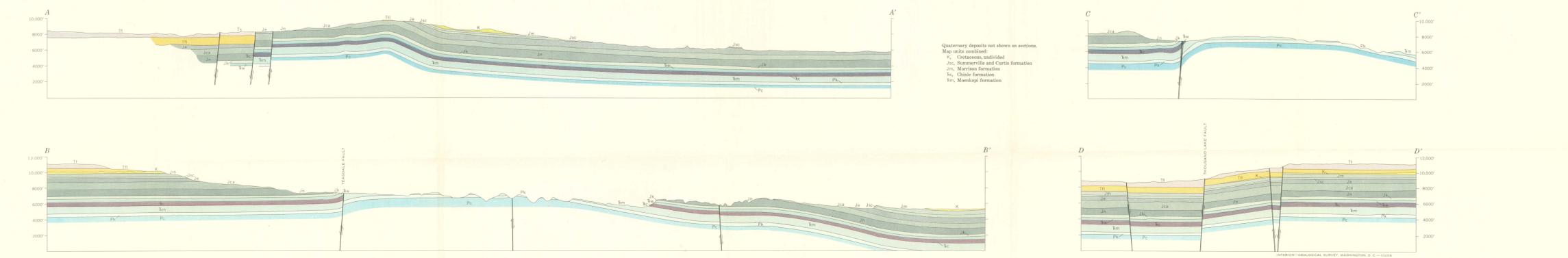
- Chino formation**  
Upper member consisting of unsorted claystone, including lenses of sandstone and greenish-gray limestone, and red, reddish-brown, and greenish-gray fossiliferous limestone, and pebbles very fine to medium-grained sandstone, and including a prominent sandstone and conglomeratic sandstone bed at the top, 5m. Shinarump member, light-gray to gray sandstone and conglomeratic sandstone, locally conglomeratic, and interbedded claystone lenses, and silty and cross-bedded about 200 feet, 5m. Thickness 120 to about 250 feet

**UNCONFORMITY**

**TRIASIC**

Base from U. S. Geological Survey topographic quadrangles, 1952.

Geology by J. F. Smith, Jr., L. C. Huff, E. N. Horvath, and R. G. Lueth, 1951-53



GEOLOGIC MAP AND SECTIONS OF THE CAPITOL REEF AREA, WAYNE AND GARFIELD COUNTIES, UTAH

SCALE 1:62,500  
CONTOUR INTERVAL 80 FEET  
DITUM 0' MEAN SEA LEVEL