

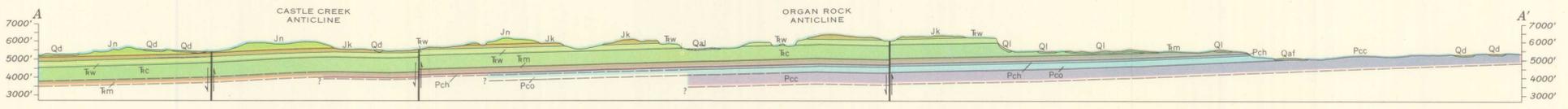
EXPLANATION

Vertical sequence not indicative of relative age of Quaternary deposits

<p>Qaf Alluvial fan</p> <p>Qal Alluvium Alluvial deposits on present flood plains</p> <p>Qd Dune sand Includes both drifting and stabilized sand dunes</p> <p>Ql Landslide deposit</p> <p>Qtg Terrace gravel</p> <p>UNCONFORMITY</p> <p>Jn Navajo sandstone Crossbedded light-brown to white medium-grained sandstone with scattered lenses of gray limestone</p> <p>Jk Kayenta formation Irregularly bedded red, gray, and pale-purple sandstone, siltstone, and clay-puddle conglomerate. Locally as much as 60 feet of the upper part of the Kayenta grades laterally into Navajo sandstone, and as much as 20 feet of the lower part of the Kayenta grades laterally into Wingate sandstone</p> <p>Jw Wingate sandstone Crossbedded light-gray, reddish-brown, and light-brown fine-grained sandstone. Locally forms vertical cliffs</p> <p>Upper Triassic</p> <p>Tc Chinle formation Undifferentiated Chinle formation, Tc, reddish-orange very fine-grained sandstone and siltstone in upper one-third, variegated siltstone and claystone and lenticular beds of sandstone and limestone in lower two-thirds. Skinnerup member, Tcs, lenticular bedded grayish-green conglomeratic sandstone and greenish-gray mudstone</p>	<p>QUATERNARY</p> <p>JURASSIC AND JURASSIC (?)</p> <p>JURASSIC (?)</p> <p>TRIASSIC</p>	<p>UNCONFORMITY</p> <p>Tm Moenkopi formation Thin platy brown siltstone and sandstone, abundant ripple marks</p> <p>Pch Pcd Pco Pcc Pcha Cutler formation Hookimint tongue, Pch, reddish-brown mudstone containing abundant disseminated rounded fine to coarse quartz grains; De Chelly sandstone member, Pcd, crossbedded yellowish-gray medium-grained sandstone, present only in small outcrop in San Juan River Canyon; Organ Rock tongue, Pco, reddish-brown siltstone and fine-grained sandstone; Cedar Mesa sandstone member, Pcc, crossbedded fine-grained light-gray to white sandstone, gradational upward to Organ Rock tongue through a zone of inter-upward to Organ Rock tongue through a zone of inter-upward bedded light-colored sandstone and reddish-brown siltstone 80 to 100 feet thick; Halgaito tongue, Pcha, reddish-brown siltstone and siltstone, exposed only in San Juan River Canyon in map area</p>	<p>PERMIAN</p> <p>Contact Dashed where approximately located</p> <p>Fault Dotted where concealed. U, upthrown side; D, downthrown side</p> <p>Anticline Showing crest line. Dotted where concealed</p> <p>Syncline Showing position of trough. Dotted where concealed</p> <p>Strike and dip of beds</p> <p>Structure contours Structure contours drawn on base of Wingate sandstone, dashed where approximately located, short dashed where projected above surface. Contour interval 100 feet. Datum is mean sea level</p> <p>Channel At base of Skinnerup member of the Chinle formation</p>
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Base from U. S. Geological Survey topographic quadrangles: Clay Hills, 15', 1954 and Clay Hills 1 NW, 7 1/2', 1952

Geology by T. E. Mullens, assisted by H. A. Hubbard and J. N. Taggart, 1952-53



GEOLOGIC MAP AND SECTION OF THE CLAY HILLS AREA, SAN JUAN COUNTY, UTAH

