



This cross section illustrates our interpretation of multiple extensional events in the Precambrian that largely correspond with deposition of the Unkar and Chuar Groups. During Unkar Group time, the Palisades fault and other northwest-striking minor faults dominated the structural regime during deposition of the Unkar and Cardenas Basalt. Movement along the Palisades fault juxtaposed lower beds of the Unkar Group with upper units and a slight angular unconformity developed as Unkar rocks

were tilted and subsequently beveled. After nearly 300 million years of relative quiet, suggested by the lack of rock record, sediment of the Chuar Group was deposited on an already tilted and eroded Unkar Group. The deposition of the Chuar Group and development of the Chuar syncline and Butte fault system are superimposed on Unkar deposits and Unkar-age faults, and the Butte fault is interpreted to truncate the Palisades fault system.