

New Mexico Geological Society

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Back Matter

(Usually includes a stratigraphic column and/or correlation chart.)

in:

, , New Mexico Geological Society 75th Annual Fall Field Conference Guidebook, 227 p.

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This is a section from the 2025 NMGS Fall Field Conference Guidebook.

Annual NMGS Fall Field Conference Guidebooks

Every fall since 1950, the New Mexico Geological Society (NMGS) has held an annual [Fall Field Conference](#) that explores some region of New Mexico (or surrounding states). Always well attended, these conferences provide a guidebook to participants. Besides detailed road logs, the guidebooks contain many well written, edited, and peer-reviewed geoscience papers. These books have set the national standard for geologic guidebooks and are an essential geologic reference for anyone working in or around New Mexico.

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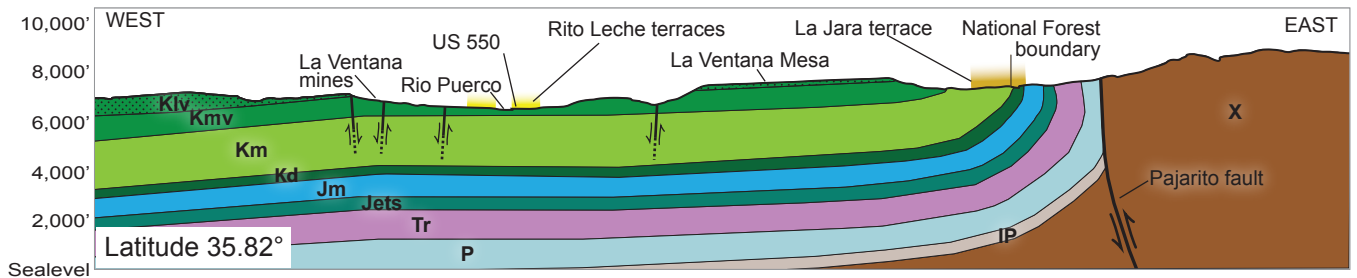
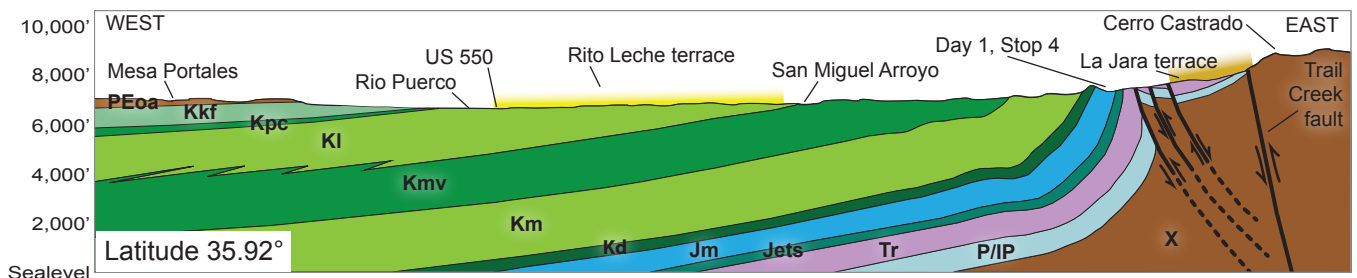
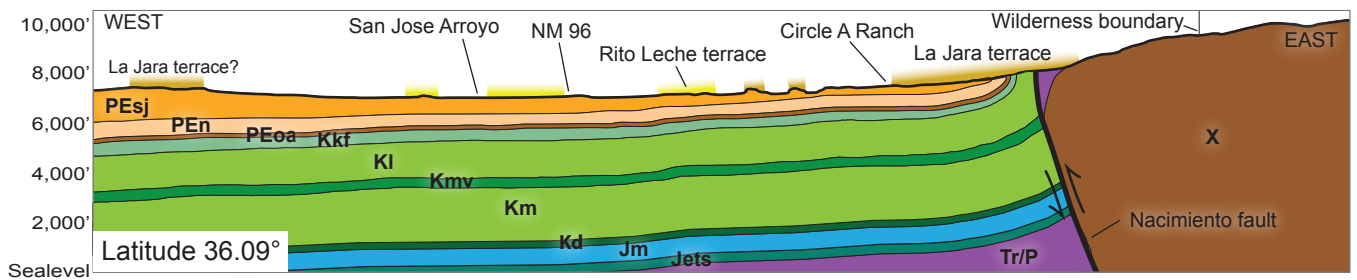
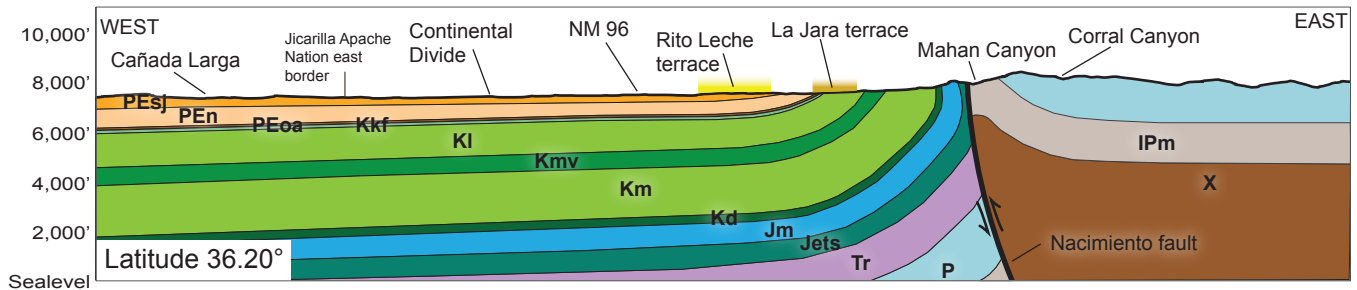
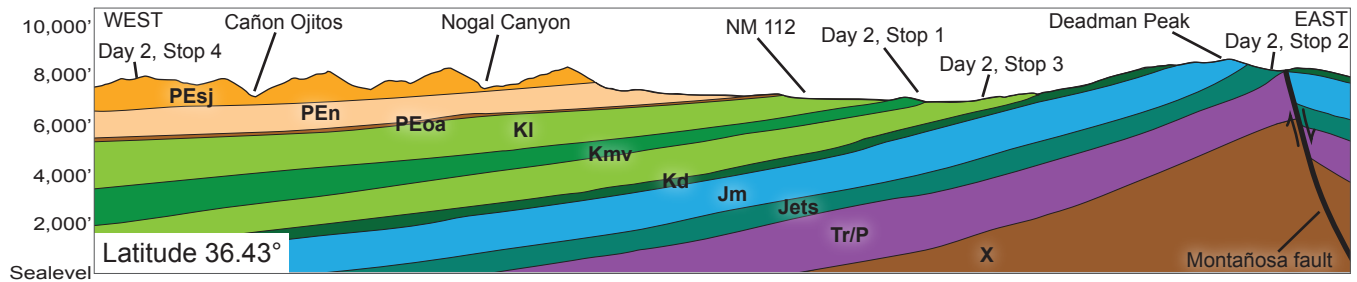
NMGS has decided to make peer-reviewed papers from our Fall Field Conference guidebooks available for free download. This is in keeping with our mission of promoting interest, research, and cooperation regarding geology in New Mexico. However, guidebook sales represent a significant proportion of our operating budget. Therefore, only *research papers* are available for download. *Road logs*, *mini-papers*, and other selected content are available only in print for recent guidebooks.

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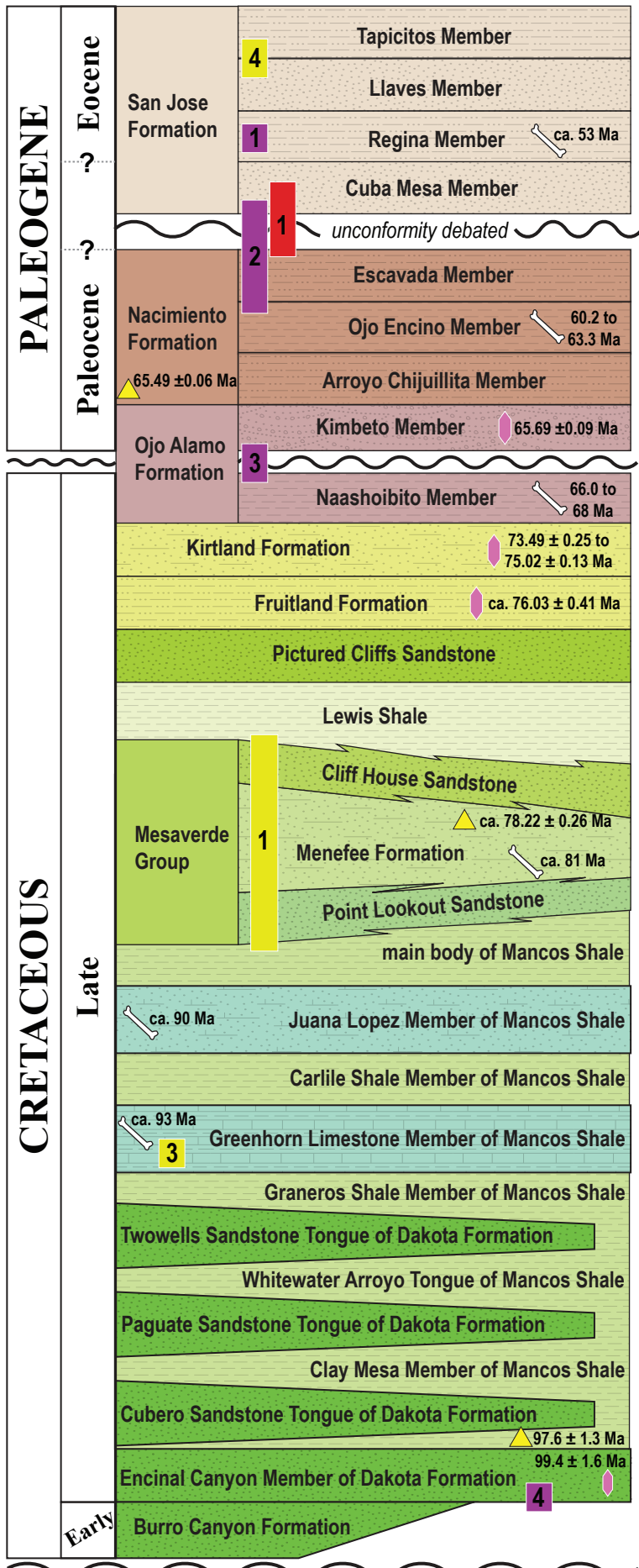
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Schematic west-east cross sections of the eastern margin of San Juan Basin at five latitudes between Deadman Peak (top) and La Ventana (bottom). Latitudes of each cross section denoted in bottom left corner. All cross sections are at the same scale with no vertical exaggeration. Geology simplified from Woodward et al. (1972, 1974), Woodward & Schumacher (1973), and Kelley et al. (2024).



Stratigraphic column for the eastern San Juan Basin

by Kevin M. Hobbs

LEGEND

unconformity

radiometric age from volcanic ash

biostratigraphic age

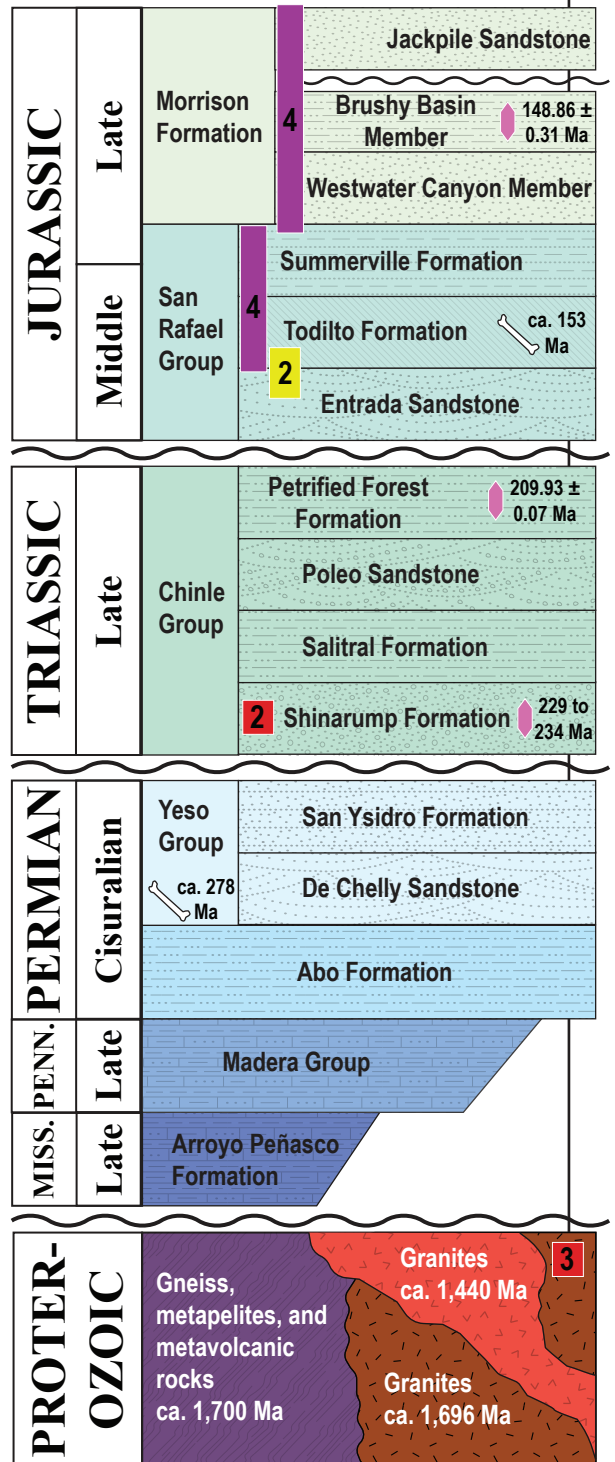
radiometric age from detrital mineral grain(s)

Day 1

Day 2

Day 3

Road log stops with stop number





Classic sedimentary rock sequences, enigmatic Quaternary deposits, deformation structures of nearly every scale imaginable, and a complex sedimentary-tectonic history combine in the eastern San Juan Basin to make the region a perfect venue for the NMGS's 75th Fall Field Conference. The first NMGS Fall Field Conference was held here in 1950, and the society has returned to the San Juan Basin five times in the interim, in 1951, 1977, 1992, 1997, and 2010. This 2025 conference guidebook builds on the incredible foundation of knowledge provided by earlier NMGS conferences in the area and showcases new advances in mapping, paleontology, geochronology, tectonics, hydrology, and sedimentology in more than 100 pages of detailed road logs and sixteen peer-reviewed technical papers authored by experts in industry, academia, and government. The field conference includes a stop at 1.7 Ga intrusive rocks, a thorough investigation of a relatively complete Cretaceous section, consideration of the structural complexity of the basin's margins, a survey of the beguiling syn-Laramide Paleogene sedimentary record, and a visit to the Nacimiento Mine site where hydrologists and geochemists were tasked with remediating the contamination that mining left behind. Much of the conference takes place in the headwaters of the Rio Puerco, whose alluvial terraces and associated pediments present a case study in neotectonic landscape development that is evident at nearly every one of the conference's eleven stops.

This is the 75th in a series of annual guidebooks produced by the New Mexico Geological Society. These guidebooks cover large regions of New Mexico and adjacent states. Collectively, they provide the most comprehensive library of geologic literature for New Mexico.