

Editorial on Stratigraphy and Sedimentology of the Morrison Formation in the Western Panhandle of Oklahoma

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Editorial

New investigations of the Morrison Formation with inside the western Oklahoma pan handle display that the formation is about 60 m thick close to Kenton, appreciably much less than ancient measurements. We offer a brand new isopach map of the Morrison Formation on the basin margin and divide the formation into 3 new individuals primarily based totally on geological, geochemical, petrographic, and paleontological characteristics. Each member is described through precise depositional facies recording a variable climatic sign and the eventual progradation of the distributive fluvial machine to the basin margin. Analogous depositional facies and lithology's of those gadgets advocate they're lateral facies successions of the well-installed individuals of the Colorado Plateau. The Cimarron Member consists of several small, ephemeral, clastic lakes on the distal margin of the alluvial braid undeniable of the Tidwell Member. The Boise Member includes several perennial limestone lakes on the distal fringe of the Salt Wash Member distributive fluvial machine.

At the pinnacle of the member, the lake coalesced right into a huge lake, herein termed Lake Stovall. The Kenton Member data the procreation of the Brushy Basin Member distributive fluvial machine to the basin margin in Oklahoma. Kenton Member fluvial

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deposition turned into through small, isolated, anastomosing fluvial channels and their related splays. The slow procreation of faces to the basin margin means that deposition with inside the foreland basin turned into geographically sizeable and protracted. Dinosaur fossils excavated throughout the Nineteen Thirties are positioned right into a stratigraphic framework. All quarries lie with inside the basal 6 m of the Kenton Member. Depositional facies and taphonomic facts mean the dinosaurs died throughout a sequence of intense droughts. Bone dispersal and burial resulted from the ephemeral flood splay events.