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Fossil marine vertebrates from the Codell Sandstone Member (middle Turonian) of the Upper Cretaceous Carlile Shale in Jewell County, Kansas, USA

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1 **Fossil Marine Vertebrates from the Codell Sandstone Member (middle Turonian) of the**
2 **Upper Cretaceous Carlile Shale in Jewell County, Kansas, USA**

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14 **ABSTRACT**

15 Reported here is the first collective description of a marine vertebrate assemblage from the
16 Codell Sandstone Member (middle Turonian) of the Upper Cretaceous Carlile Shale in Jewell
17 County, Kansas. The Codell Sandstone was deposited during a regression of the Western Interior
18 Seaway, and the fossil locality is described as a relatively shallow, near-shore environment. The
19 fauna consists of 38 taxa, including at least 22 chondrichthyans, 13 osteichthyan fishes, and
20 tetrapod remains belonging to mosasauridae, plesiosauria, and testudines. The fauna is
21 dominated by active, pelagic carnivores, such as *Meristodonoides*, *Anomotodon*,
22 *Scapanorhynchus*, *Odontaspis*, *Cretalamna*, *Archaeolamna*, *Cretoxyrhina*, *Cretodus*,
23 *Dallasiella*, *Pseudocorax*, *Paranomotodon*, *Belonostomus*, *Protosphyraena*, *Xiphactinus*,

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