

Paleontology of the ?McKay Coal Zone (Foremost Formation) on the Milk River, Pinhorn Ranch, Southeast Alberta

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A paleontological study is currently being undertaken on a 0.1m thick shell lag horizon close to the ?McKay Coal Zone of the Late Cretaceous (Campanian) Foremost Formation of Southeast Alberta. A variety of both identifiable and previously undescribed invertebrate and vertebrate taxa have been recovered from this horizon. Amongst the invertebrate taxa are numerous complete and fragmentary bivalves and gastropods including: *Corbula perundata*, *Corbula sp.*, *Veloritina occidentalis*, *Melania whiteavesi*, and numerous specimens of a previously undescribed gastropod. The vertebrate material from the site consists mainly of fragmentary fish bones, several unidentified teeth, and several teeth of the chondrichthyan *Myledaphus sp.* This poster will present an overview of the field site, a detailed stratigraphic section and grain size analysis outlining the geological setting of the horizon being examined, a brief outline of the taxa studied up to this point, and a detailed description and statistical analysis of both the previously undescribed gastropod and the bivalve *Corbula perundata*.