

**Mudstone-pebble conglomerates and trough-shaped depressions
in Carboniferous fluvial strata from Cape Breton Island. How did they form?**

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Several occurrences of what appear to be mudstone-pebble conglomerates infilling trough-shaped depressions are documented from the Port Hood Formation (Carboniferous) of western Cape Breton Island. The origin of these features may be critically debated: were they produced by the depo-

sition of coarse grained bedload within scour channels, or by the slumping of channel banks, or by intrusion associated with reverse-density gradients in the shallow subsurface?