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**Telychian sedimentation across the Tywi and Pontesford lineaments in
central Wales**

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The Tywi and Pontesford lineaments are two complex, north-east trending fold/fault belts, forming part of a series of major structures in Wales and the Welsh Borderland, lying between the stable Midland Platform to the east and the Lower Palaeozoic Welsh Basin to the west. West of the Tywi Lineament, a complete Llandovery sequence of basinal aspect rests conformably on late Ordovician (Ashgill) strata. Eastwards across the Tywi structure, mid to late Telychian basinal and slope sequences overstep onto progressively older strata, ranging from early Telychian in the western and central parts of the structure, to Caradoc in the east. Across the Pontesford Lineament, mid Telychian transgressive shelf sandstones rest with increasing unconformity on Aeronian and Rhuddanian rocks, and locally, in the Builth area, on strata as old as Llanvirn.

This major intra-Telychian unconformity records the effects of penecontemporaneous fault movements, with concomitant folding and uplift, along the Tywi and Pontesford lineaments, giving rise to both submarine and subaerial erosion. Mid to late Telychian sedimentation was probably influenced by these movements, with local depocentres resulting from structural inversions within the fault-controlled topography.