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Late Quaternary Depositional Environments of the Canadian Beaufort Shelf

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Seismic and borehole data have been studied from the Beaufort Shelf, east of Mackenzle Trough. Three acoustic sequences, separated by unconformities can be recognised from high resolution seismic records. Sequence 1 consists of complex horizontal and progradational reflectors, with variable acoustic penetration. It is bounded above by an unconformity on which two broad valleys are incised to

a depth of 30 m. Sequence 2 has a wedge-like geometry at the margins of these valleys and consists predominantly of oblique progradational reflectors which become sigmoidal towards the centres of the valleys. second unconformity marks the top of this sequence, although in intervalley areas, it is often impossible to distinguish from the lower unconformity.