

**Estuarine Point Bar and Bay Fill Deposits: Glauconitic Member,  
Lathom Field, S. Alberta**

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The cores from the Glauconitic Sandstone Member in the Lathom Field illustrate the wide variation in estuarine valley fill that can occur over a relatively short distance. The 7-19 core represents a typical “fining-upward” or “shaling upward” subtidal estuarine point bar sequence and the gamma ray reflects this typical point-bar signature. The fluvial portions of the valley fill may be represented at the base with a marked change up-wards to tidally influenced deposits as the valley became progressively drowned. Conversely, the cored sequence in 14-19 displays a subtle “coarsening-upward”, with typical shallow marine bioturbation evident throughout. The gamma ray log varies substantially from the gamma log in the 7-19 well. The 14-19 core is interpreted as subtidal estuary bay-fill and reflects the gradual landward (bayward) encroachment of the marine sand wedge into the drowned valley.