

From Ichnofabric to Reservoir Model – a Tide Dominated Delta Front Succession from the Lajas Formation, Neuquen Basin, Argentina

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The Lajas Formation of the Neuquen Basin consists of a thick succession of tide-dominated deltaic reservoirs. Such depositional settings are becoming increasingly commonly recognised and form important reservoirs offshore Norway, S. China Sea and in S. America. Previous work on the Lajas Formation has described the delta top palaeoenvironments in some detail. This presentation is focussed on the delta front setting. Detailed facies architectural studies have been undertaken, which utilise ichnofabric analysis and high resolution sequence stratigraphy. This architectural data has, in addition, been used as the basis for creation of a reservoir model which honors the outcrop data to a high degree.