

Reservoir Analogues for East Coast Reservoirs from the Lusitanian (Portugal) and Wessex (England) Basin

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The coastal exposures of Cretaceous-age, reservoir prone sediments in the Channel Basin of the southern UK, and the Lusitanian Basin of Portugal provide a key to the subsurface reservoirs being exploited for oil and gas development offshore Atlantic Canada. These two coastal areas have striking similarities to the offshore region of Canada. Outcrops demonstrate a range of depositional environments ranging from terrigenous and non-marine, through shallow siliciclastic and carbonate sediments, through to deep marine sediments. These outcrops provide clearer understanding of key stratigraphic surfaces representing conformable and non-conformable surfaces. Validation of these analogue sections will be instrumental in the continued model building and prediction of oil and gas resource potential offshore in the Atlantic Region.