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Geophysics Paper 8 EXETER MUTINEER – CASE STUDY OF AN INTEGRATED PROJECT FROM SEISMIC SURVEY DESIGN TO INVERSION

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In 2006 WesternGeco acquired a seismic survey for Santos, to image the Exeter Mutineer field on the North West Shelf of Australia. Although the field has been in production since 2003, the understanding of the reservoir is limited. Existing seismic was of marginal quality and did not deliver the subtle detail required to understand the complexities of the Exeter Mutineer reservoir. The new seismic has delivered significant up-lift in resolution over the existing seismic. This case study will initially discuss the background and drivers for the new acquisition and then look into how the combination of high end acquisition technology and the integrated approach delivered value to the oil company.