## Rock physics and reservoir characterization of a calcitic-dolomitic sandstone reservoir

H. Morris<sup>1</sup>, E. Efthymiou<sup>2</sup>, B. Hardy and T. Kearney<sup>3</sup>

## **Abstract**

This paper highlights key steps used to take us from a rock physics model to a reservoir model introducing methods to improve the data quality via seismic data conditioning and highlighting some of the benefits of using a sequential Gaussian inversion over more conventional deconvolution style inversion methods.

The field for this study is in northwest Sumatra operated by Salamander Energy where so far four wells have successfully tested for gas and condensate from the Belumai dolomitic sandstone. A second prospect was drilled into a separate structure to the west of the main field structure and tested water.

<sup>&</sup>lt;sup>1</sup>Ikon Science, Teddington, United Kingdom

<sup>&</sup>lt;sup>2</sup>Ikon Science, Houston, United States of America

<sup>&</sup>lt;sup>3</sup>Salamander Energy, London, United Kingdom