

**SEISMIC IMAGING AND VELOCITY MODELLING OFFSHORE MYANMAR (ANDAMAN SEA BASIN)**

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All Geophysical Data Analysis/Processes are basically solving the inverse problem. One of the inversion methodologies is to derive Structure & Velocity via Seismic Imaging. The proper seismic imaging workflow is crucial in attenuating multiples and optimally images the seismic feature. This will further enhance the confidence level during interpretation and mapping and might all the way lead toward seeing flares. From pre-analysis/data preparation/data stabilization, analysis/data processing to deliverable of Pre-Stack Time Migrated Gathers require detail and precise technical analysis. The testing of 2D seismic line no. A, Offshore Myanmar, Andaman Sea Basin through PSTM has shown optimized subsurface imaging and

better attenuation of multiples, which can be seen in target zone from 3000ms to 4000ms TWT.

**REFERENCES**

- AZLAN M. S., GOH L. K. AND GARRY M. P., XPG/PCML, 2009. A Re-assessment Of The Prospectivity Of Offshore Blocks Myanmar. Unpublished Internal Report, PCSB.
- VERSCHUUR, D. J., BERKHOUT, A. J. and WAPENAAR, C. P. A., 1992. Adaptive surface-related multiple elimination, *Geophysics*. 57: 1166-1177.
- YILMAZ, Ö., 2001, *Seismic Data Analysis: Processing, Inversion, and Interpretation of Seismic Data* : SEG.