Observations from the Southern Gulf of Mexico – Correlation with the U.S.

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ABSTRACT

Integration of regional 2D seismic and legacy seismic data spanning US and Mexican Gulf of Mexico (GoM) have been merged, reprocessed, repositioned, depth imaged and integrated into a regional basin-wide program. These data provide unique coverage of the entire Gulf of Mexico Basin and its margins imaging the Tertiary and Mesozoic strata and the underlying basement across the basin. Stratal horizons mapped from well control in US waters are extended into Mexican waters providing a consistent and calibrated stratigraphic correlation of multiple reservoir-prone intervals. This comprehensive and regional mapping of depositional systems into unexplored areas helps identify new exploration opportunities. The correlation and seismic character from the onshore Gulf Coast southward to the Bay of Campeche and isopach maps of stratigraphic depositional systems through time provide the frame-work for comparison of depositional across the GoM. This analysis forms the basis of a calibrated regional correlation and creates a framework for integration and interpretation of other seismic data from the GoM. A number of regional seismic lines and maps are presented highlighting the depositional and structure features and trends for exploration potential in the US and Mexican sectors.