

## Seismic Poststack and Prestack Inversions in the Playuela Field

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Natural gas is playing an important role in Mexican industry. The paradigm shifts produced by the gas strategy, from oil to non-associated gas, from deep to shallower targets, from siliciclastic reservoir, and from structural to stratigraphic traps, have together promoted the use a new technology to reduce the risk involved in prospect evaluation, reserve estimation and reservoir characterization in Mexican gas provinces. Veracruz Basin has been a natural lab where amplitude anomalies represent more than 85% of success in drilling locations allowing to incorporate an important number of new fields in the last 4 years. Basin analysis and play characterization have also played an important role by considering that gas-producing reservoirs are Tertiary siliciclastic deep-water systems. Veracruz basin, then, has been a good field for the successful application of amplitude-anomaly based techniques. According to the nature of the problem, leading edge technology as instantaneous attributes, AVO, seismic pre-and post-stack inversion have been successfully applied to recognize patterns and make prediction on prospective intervals defining the proper location of appraisal well, and making reliable reservoir characterizations. This study included the historical case in Playuela Field, when we have need to use the seismic inversion to reduce the amplitude risk in our next drilling.

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