

Centenario Field, Neuquen Basin: Recent Developments in Tight Gas Reservoir Characterization, Los Molles Formation

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ABSTRACT

Tight-gas reservoirs in proximal environmental settings present a characterization challenge due to their high complexity, not only with lithologies but also with petrophysics and fluid distribution, factors which have a direct impact on well performance. A conceptual 3D geological model was built to help gradually decrease the level of uncertainty, allowing the definition of appraisal areas in different categories to continue the Los Molles formation development plan. In one of the best zones, detailed reservoir characterization is being carried out, including facies modeling, seismic identification of producing intervals, and petrophysical rock typing, all of which are integrated in a 3D static model that will be the basis for a numerical simulation.