

Geotesting: Fracture Characterization Using Static and Dynamic Data, Copacabana Group

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Abstract

This presentation shows a methodology for the dynamic characterization of natural fractures and permeability through well testing using a multidisciplinary approach. Traditionally, a dual porosity approach has been considered to model the pressure transient test response of a fracture network. This project created a conceptual grid model first and then simulated the well test behavior and compared it with the real well test. The process was repeated until a reasonable match was obtained. This methodology was applied at the carbonate reservoir Copacabana in the Mipaya Field.