

Reservoir Characterization for Optimizing Production: Eagle Ford Case Study

Queena Chou¹

¹Weatherford

Abstract

This entertaining technical presentation identifies subsurface technical challenges we face in the Eagle Ford and other North American shales. We present practical hydraulic fracturing optimization methods. As well, we empathize the importance of setting openhole packers in acceptable (on gauge) openhole environment. We compare perforation efficiencies and production volumes between geometrically and “engineered” completions designs. We review anisotropy and its importance in hydraulic fracture simulations. We present our method of calculating “fracability” in shales along horizontal wells.