

Static and Dynamic Characterization of Lajas Formation Sands: Lessons Learned and to be Learned in the Cupén Mahuida Area of the Neuquén Basin

**R. Coppo¹, C. Gatica¹, S. Iglesias¹, J. Fernández¹, Dana Masiero¹, E. Rodríguez¹, Emiliano Santiago¹, G. Terrasanta¹,
G. Valenzuela¹, and F. Wagner¹**

¹ YPF

ABSTRACT

Since 2013, YPF has mass-drilled 130 wells in the Cupen Mahuida area of the Lajas Formation. The unit is 900 meters thick, composed of thin to coarse sands, conglomerates and silts, which represent the beginning of the regressive period inside Cuyo Group. Those deposits present average values of 9% of porosity and 0.01mD of permeability, which make the Lajas Formation fall into the tight sands classification in this block.

During this presentation, we intend to share our experiences and the lessons we have learned about static and dynamic characterization, with a focus on the following tasks: well correlation and mapping, structural influence, microseismic, petrophysics, cutoffs, large coring method, permeability measurement (pulse decay), choke management, static and dynamic modeling, and horizontal well development.