

## CORE ANALYSIS TO CALIBRATE GEOPHYSICAL INTERPRETATION

**Dominique Marion\***, **Bernard Zinszner\*\***

\* Elf Aquitaine, Pau, France

\*\* Institut Francais du Pétrole, Rueil, France

**Abstract** This paper comprises a brief review of some aspects of rock and fluid properties and their effects on acoustic measurements. We illustrate the effect of pore geometry, saturation, fluid type and shaliness on velocity measurements on cores and we present some field applications of these laboratory measurements including qualitative and quantitative interpretation of seismic, repetitive seismic and sonic data.