

INFLUENCE OF DEPTH AND CLAY CONTENT FOR TWO BOREHOLES FROM THE VIENNA BASIN; FOCUSING ON THE ROCK PHYSICS TEMPLATE

HOFER, Denise*

Montanuniversität Leoben, Austria

denise.hofer@stud.unileoben.ac.at

Petrophysics, Formation Evaluation

This study investigates the influence of depth and clay content for two boreholes of the Vienna Basin focusing on the Rock Physics Template (RPT). Because physical properties of rocks depend on lithology a formation evaluation including clay volume analysis was done to determine the different lithologies. Furthermore elastic properties (compressional- and shear wave velocity, velocity ratio), porosity and density were investigated on depth and clay volume. Subsequently RPTs with the influence of depth and clay volume were generated. The influence of clay content on the RPTs showed good results, which correlate with past investigations. The influence of depth on the RPTs is only given for a part of the investigated lithologies.