

Application of Rock Physics to Oil/Gas Reservoir Property Estimation from Seismic Data

Isao Takahashi[1]

[1] INPEX

Application of high-end 3D seismic technology is becoming mandatory for successful reservoir evaluation in many oil and gas fields.

At any stage of field development from exploration upto reservoir monitoring, ROCK PHYSICS is the crucial element in quantitative 3D seismic interpretation and reservoir characterization. Based on solid understanding of background physics about rocks and seismic waves, ROCK PHYSICS seeks to clarify major issues in exploration and development, e.g., what kind of reservoir information seismic data deliver us, how we can confidently extract seismic information useful for reservoir evaluation, and how to take advantage of such seismic information for practical reservoir description.

The presentation will adress significance of ROCK PHYSICS in oil and gas field evaluation by using actual field data examples.