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Technical Presentation: “Geological and Geophysical interpretation workflow in Petrel”
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Abstract

The integration of geological and geophysical interpretation is the key process to understand the distribution of the reservoir. In addition to the integration of static and dynamic data, the full incorporation of results from seismic, core analysis, petrophysics and modelling allowed for a better description of the subsurface heterogeneities, hence a better distribution of rock and fluid properties in the reservoir.

The Petrel E&P software platform provides deep science across disciplines, within a single, multiuser collaboration environment, geoscientists can perform powerful 3D, classic 2D, and pre-stack seismic interpretation, as well as advanced geophysics, 4D seismic and quantitative interpretation workflows.

The Petrel E&P software platform offers a full range of tools to solve the most complex structural and stratigraphic challenges—from regional exploration to reservoir development. Within a single environment, geoscientists can perform the key geological workflows from stratigraphic and seismic interpretation through fracture, facies, and geocellular property modelling to history matching and production simulation.

Biography

Ramona Zota is Geophysicist for Schlumberger SIS Software Integrated Solutions since June 2014, located in Bucharest and providing support on Petrel Geophysics.

She graduated Technical Geology in 2007 at Alexandru Ioan Cuza University, Iasi, Faculty of Geology and has a master in Sedimentary Basin Evaluation, graduated in 2008 at Bucharest University, Geology and Geophysics Faculty.

She joined Schlumberger in 2008 and worked for WesternGeco as geophysicist for more than six years on seismic data processing, using OMEGA WesternGeco seismic processing system. Her Data Processing Specialties are Seismic Data Processing (Signal processing, Noise Attenuation, De-multiple, pre-stack & post-stack Migration, Post-Migration processing), Seismic acquisition, Hardware and Processing System Administration, with application on Q-Streamer Technology on various 2D, 3D, 4D, broadband, WAZ and full azimuth (coil) surveys.

In the last two years with SIS, she delivered onsite support to Petrel’s customer for a qualitative interpretation using Petrel software, provided client support for efficiently using diverse workflows: seismic interpretation and analysis, geological and geophysical interpretation, rock property analysis, depth conversion, rock physics assessment, AVO interpretation, simultaneous and stochastic Inversion, mapping, structural framework creation and also provided client’s technical presentations and demonstration with applicability in geology and geophysics domains.