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«SEISMIC INTERPRETATION. INTEGRATION WITH ROCK PHYSICS DATA», 5 days

COURSE OBJECTIVE:

Development of professional competencies of geophysicists and geologists in modern seismic interpretation technics, integration with results of rock physics modeling (AVO, inversion), exploration technics, risk mitigation while prospect estimation, lithostratigraphic cubes modeling, reserves estimate and velocity modeling.

ACQUIRED ABILITIES:

- Perform seismic data interpretation;
- Integrate attribute analysis results, AVO, inversion, fluid substitution modeling;
- Assess reservoir quality and reduce risks while prospect estimation;
- Perform velocity modeling;
- Analyze examples of seismic data interpretation, attributes application and drilling results.

COURSE CONTENT:

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Module Name	Content
Seismic interpretation	Seismic data quality and parameters. Well tie and calibration.
overview	
Geological and tectonic	Faults interpretation. Horizon interpretation.
background, horizon and faults	
interpretation	
Seismic Attributes	Seismic attributes for structural interpretation. Seismic attributes for
	reservoir characterization. Seismic facies estimation. Fluid
	substitution. Amplitude analysis. Tuning effects.
Velocity modeling	Input data. Modeling methods. Velocity model refinement.
, e	Anisotropic Velocity modeling
Rock Physics	Lithological properties and acoustic behavior.
AVO analysis	Trace amplitude. Seismic gathers modeling. Fluid substitution. AVO modeling.
Seismic Inversion	Seismic inversion. Lithological cubes. Spectral decomposition.
	Stochastic inversion.
Prospects, Reservoir	Trap types. Reservoir parameters prediction (porosity, fluid type,
parameters predictions and	shaliness). Seals. Risk assessment. HC volume estimation.
reservoir characterizations	
Case studies	Many case studies about different types of traps, HC filling,
	depositional environment and drilling results. Examples of inversion
	data integration, AVO while reservoir quality assessment and risks reduction.