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«ADVANCED WELL LOG INTERPRETATION», 5 days

COURSE OBJECTIVE:

Development of professional competencies in deep understanding of open hole well log interpretation, modern physics of traditional well log methods and core data analysis case studies: terrigenous reservoirs, carbonate reservoir and shale gas interpretation issues, fracture detection with well log data, and drill stem tests.

ACQUIRED ABILITIES:

- Evaluate reservoir properties of complex geology rocks;
- Assess a lithological geology of reservoirs;
- Prove petrophysical functions of hard-to-recover reserves;
- Evaluate petrophysical properties of nonconventional rocks;
- Specify a saturation of complex geology rocks;
- Identify fractured reservoirs.

COURSE CONTENT:

Module Name	Content
Core sampling and analysis	Core sampling. Whole core testing. Lithologic and petrographic survey. Standard core analysis. Advanced core study. Flow analysis and capillar pressure. Capillar models.
Open-hole logging	Clay minerals and its typology. Shaliness well logging (SP log, gamma log, NGL). Porosity logging (density log, neutron log, acoustic log). SP log (electrode, induction).
Terrigenous and carbonate reservoirs	Sand reservoir properties. Stratified reservoirs. Introduction to carbonate reservoirs interpretation.
Fractures, unconventional reservoirs, formation microscanning	Formation multiscanners. Introduction. Unconventional reservoirs. Shaly hydrocarbons. Introduction.
Well surveys processing and interpretation	Case studies.