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«EFFECTIVE RESERVOIR MANAGEMENT», 5 days

COURSE OBJECTIVE:

improvement of professional competencies of reservoir engineers for:

- uncertainties reduction,
- understanding of deposits development process,
- design of wellwork programs,
- fields development efficiency improvement.

ACQUIRED ABILITIES:

- determine key spheres and tasks of reservoir management;
- apply analytical methods of field data processing and conclude about design parameters deviations;
- apply engineering methods of layer management and analysis;
- design complex monitoring, secondary analysis and wellwork programs aimed at development system optimization.

COURSE CONTENT:

Module Name	Content
Concept of reservoir management. Methods and ways of well testing programs and management tasks integration.	Traditional approaches to reservoir management. Reservoir management concept development. Well testing methods.
Field trip	Field trip
Engineering methods of waterflooding management and analysis.	Review of rock properties and fluid flow. Classification of field development systems. Oil recovery ratio counting. Tolls of waterflooding planning and analysis: recovery decline analysis, block analysis, material balance equation, analytical and large-scale models application.
Prompt field monitoring tools.	Estimation of deposit energy state. Field data analysis. Production and injection wells efficiency assessment. Associated water analysis. Analogues method application.
Content of field management activities.	Monitoring program. Supervision parameters. Case studies of Western and Eastern Siberia: monitoring, development analysis, design of wellwork program.