

Training Course:

Horizontal and Extended Reach Drilling Operations Course

Class Size: Limited to 10 participants

Duration: 3 days (24 academic hours)



Course Overview:

This course covers the fundamental principles and operational practices required for drilling challenging wells, including Extended Reach Wells (ERD), complex 3D and horizontal wells, as well as J- and S-shape well profiles.

The program focuses on the key technical challenges associated with planning, drilling, and maintaining complex wellbores. Participants will gain practical knowledge of torque and drag, hole cleaning, tripping operations, equivalent circulating density (ECD), wellbore stability, and other critical factors affecting drilling performance and operational safety.

While the course is primarily designed for Drilling Supervisors and Toolpushers, its content is equally valuable for the entire rig crew -from Assistant Drillers to Rig Managers, providing a shared understanding of best practices for drilling complex wells.

Course Agenda:

Day 1 - Fundamentals of Complex Well Construction

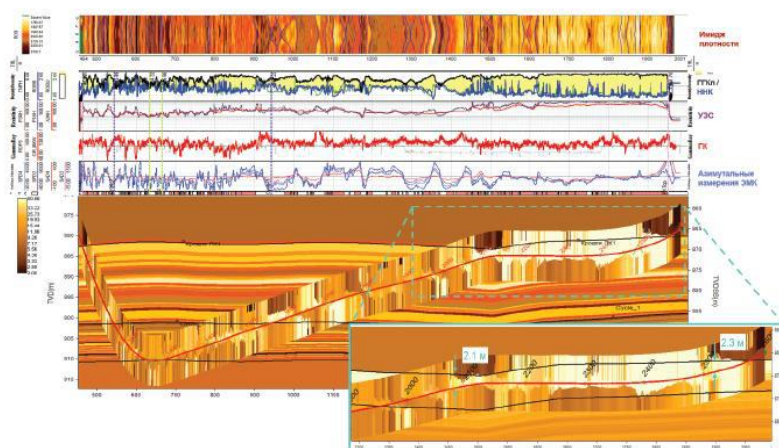
- Course Introduction
- Types of Complex Wells (Extended Reach, 3D, Horizontal, J- and S-shape Wells)
- Planning and Drilling Considerations for Extended Reach Wells
- Fundamentals of Torque and Drag.

Day 2

- Hole Cleaning Principles
- Tripping and Backreaming
- Equivalent Circulating Density (ECD) Management
- Surge and Swab Management

Day 3

- Connection practices optimization
- Fundamentals of Wellbore Stability (Geomechanics)
- Wellbore Condition Monitoring
- Differential Sticking: Causes, Prevention and Mitigation



Target audience:

- Drilling engineers and supervisors, drilling and cementing fluids engineers, directional drilling engineers
- Drilling foremen
- Drilling crew specialists (from assistant driller to driller)