Directional, Horizontal and Sidetrack Drilling

09 - 13 Sep 2018, Dubai
08 - 12 Sep 2019, Dubai
Introduction

This GLOMACS Directional, Horizontal and Sidetrack Drilling training seminar will increase the participants’ understanding of the operations carried out by directional drillers and how directional and horizontal wells are planned and optimized. The basic applications and techniques for multilateral wells will be covered and participants will receive instructions on planning and evaluating horizontal wells based on the objectives of the horizontal well, and how to perform the proper planning for directional and horizontal well. In addition, this GLOMACS training seminar will cover how to predict wellbore path based on historical data and determine the requirements to hit the target, and help solve related problems.

This GLOMACS training seminar will feature:

- How to identify candidate wells for horizontal drilling, design horizontal and multilateral well profiles
- Understanding single and double build curve
- Calculating torque and drag
- Understanding kick off methods, compile a drilling and completion program and estimate wellbore stability mud weights

Objectives

By the end of this GLOMACS training seminar, participants will be able to:

- Interpret TVD, polar, rectangular coordinates, dogleg severity and the problems associated with it
- Interpret torque and drag and what factors affect those in the drilling process
- Understand main concepts associated to well path planning
- Recommend suitable measures to mitigate operational issues related to directional and horizontal drilling
- Understand main concepts associated to well construction of multilateral wells

Training Methodology

This GLOMACS Directional, Horizontal and Sidetrack Drilling training seminar will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. The daily workshops will be highly interactive and participative.

Organisational Impact

The organisation will gain, in sending their employees to attend this particular GLOMACS training seminar, the following:

- Achieving the optimum design of well, and avoiding the risk
- Extending the well life and control it
- Ensuring the well integrity in all stages

Personal Impact

- Obtain integrating knowledge to mitigate and eliminate the drilling problems
- Hone their knowledge and get the self-confidence for doing the proper well design, in addition, how to eliminate all kinds of problems

Who Should Attend?

This GLOMACS training seminar is suitable to a wide range of professionals but will greatly benefit:

- Drilling Engineer
- Completion Engineers
- Completion Supervisors
- Drilling Managers
- Drilling Technical Support Personnel
### DAY 1

**Directional Profiles and Other Applications of Directional Drilling**
- Directional Drilling Fundamentals and Short History
- Applications and Limitations
- History and Applications of Extended Reach Drilling
- Directional Well Profiles (2D, 3D, designer wells)
- Survey Calculation Methods: Tangential, Balanced Tangential
- Average Angle, Radius of Curvature, Minimum Curvature
- Survey Calculation Exercises

### DAY 2

**Dogleg, Torque and Drag Calculations**
- Factors that Affect Torque and Drag
- Friction Coefficient
- Directional Profile
- String Weight
- Directional Drill String Design
- Conventional Directional well
- High Angle or Horizontal Well
- Problems & Case History

### DAY 3

**Planning Directional and Horizontal Wells including Extended Reach Wells (ERD)**
- Determining Directional Well Plan
- Planning Directional Well with Single Equation
- Planning Horizontal Wells
- Planning ERD

### DAY 4

**Hole Cleaning Practices in Deviated and Horizontal Wells**
- Hole Cleaning Problems Associated With Inclination
- Annular Velocity
- Flow Regime And Viscosity
- Drill Pipe Rotation And Reciprocation
- Multi-lateral Wells Concepts and Application
- Horizontal and Multilateral Drilling Technology
- Methods & Applications
- Levels of Multilateral Wells
- How to Perform a Multi-lateral Well
- New Technologies Application (Rotary Steerable, Thin Wall Motors, etc.)

### DAY 5

**Completion for Horizontal and Multi-lateral Wells**
- The Difference of Production between Horizontal and Vertical
- Difference of Production between Horizontal and ERD
- Difference of Production between Horizontal and Multi-lateral
Directional, Horizontal and Sidetrack Drilling

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<thead>
<tr>
<th>Code</th>
<th>Date</th>
<th>Venue</th>
<th>Fees</th>
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<td>OG058</td>
<td>09 - 13 Sep 2018</td>
<td>Dubai - UAE</td>
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<tr>
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<td>$4,950</td>
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4 WAYS TO REGISTER

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TERMS AND CONDITIONS

• Fees – Each fee is inclusive of Documentation, Lunch and refreshments served during the entire seminar.
• Mode of Payment – The delegate has the option to pay the course fee directly or request to send an invoice to his/her company/sponsor. Credit card and cheque payments are both acceptable.
• Cancellation / Substitution – Request for seminar cancellation must be made in writing & received three (3) weeks prior to the seminar date. A US$ 250.00 processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due, although in such cases we would be happy to welcome a colleague who would substitute for you.
• Hotel Accommodation – is not included in the course fee. A reduced corporate rate and a limited number of rooms may be available for attendees wishing to stay at the hotel venue. Requests for hotel reservations should be made at least three (3) weeks prior to the commencement of the seminar. All hotel accommodation is strictly subject to availability and terms and conditions imposed by the hotel will apply.
• Attendance Certificate – a certificate of attendance will only be awarded to those delegates who successfully completed/attended the entire seminar including the awarding of applicable Continuing Professional Education Units/Hours.
• Force Majeure – any circumstances beyond the control of the Company may necessitate postponement, change of seminar venue or substitution of assigned Instructor. The Company reserves the right to exercise this clause and implement such amendments.
• Fair Access / Equal Opportunities – In the provision of its services as a world-class Training Provider, the Company is committed to provide fair access/equal opportunities throughout the delivery of its courses and assessment leading to the completion of training seminars, or 3rd party qualifications/certifications.

Successful participants will receive GLOMACS’ Certificate of Completion

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