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# THE EXTENDED REACH DRILLING SOLUTION: WHY, WHERE AND HOW

>>Registration deadline:  
10 April 2008

>>Register by fax, email or online  
at [www.spe.org/08aad3](http://www.spe.org/08aad3)



## Workshop Abstract

Limitations to reaching new geological targets are not easily accessible by conventional ways. Challenges to maximize the full potential from maturing fields to meet today's ever increasing production targets, has seen a warranted resurgence in Extended Reach Drilling (ERD) in many locations worldwide. Once considered a high cost-high risk option, global demand has necessitated a change in how Extended Reach Wells and projects are evaluated.

The last 15 years have seen the limits of Extended Reach Wells (ERW) pushed beyond 37,000 feet whilst many other industry projects have continued to deliver horizontal sections in excess of 20,000 feet. Appropriate selection and application of rig and downhole technology have been key to achieving successful projects, but has the industry captured real understanding and retained this working knowledge? As with any complex directional well, identification of the potential risks is paramount and requires concise evaluation and structured contingencies to be put in place. This process poses greater and newer challenges when considering the planning and execution of ERD operations.

This workshop will tackle some of the key challenges associated with ERD and provide a clearer understanding to key factors facing the successful delivery of an Extended Reach Well, such as:

- Why and Where is Extended Reach Drilling Applicable or Feasible
- Review of Project Planning through Case Studies
- Optimising Rig Technology for Extended Reach Drilling
- Understanding Extended Reach Well Design Challenges
- Engineering Solutions through an Integrated Teamwork Approach

## Who Should Attend

The intended audience of this workshop is Drilling and Completion Engineers, Geologists, Petrophysicists, Rig Operators, Drilling Team Leaders and Management.

## About the Venue

Le Royal Méridien Abu Dhabi offers luxurious guest rooms and suites with stunning views of the shimmering Arabian Gulf and the lush public gardens of the Corniche. The hotel also features a private lounge, a state-of-the-art health club and a pool set amidst the soothing greenery of terraced gardens.

Situated within walking distance of the commercial and business districts of the city, Le Royal Méridien Abu Dhabi is only a short drive from Abu Dhabi International Airport. Entertainment is a mere stroll away, with shopping malls, the Corniche, and the best water-sport facilities, tennis courts and golf courses in the city.

## General Information

### Overview of Abu Dhabi, UAE

Abu Dhabi is the capital of the United Arab Emirates and the largest of the seven Emirates. Its naturally desert climate and its convenient location in the Arabian Gulf has endowed it with warm seas and cosy beaches. Its long coastline - the shallow waters of the Southern Gulf, extend from the base of the Qatar Peninsula in the west to the border of the emirate of Dubai on the North East.

Now Abu Dhabi is one of the most modern and richest cities in the world. Abu Dhabi city provides tourists with large gardens and parks, green boulevards lining all the streets and roads, sophisticated high rise buildings, state of the art communication services and transport, the presence of all international luxury hotel chains, rich shopping malls and cultural centres.

On the land, Abu Dhabi stretches south to the Oasis of Liwa where some of the world's largest sand dunes can be found and east to the ancient Oasis of Al Ain.

The main language is Arabic and English is widely spoken.



### Format:

Welcome Reception and Dinner followed by two days of informal discussions prompted by selected keynote presentations. Attendees will be assigned to discussion groups on a random basis to maximise the opportunity to interact with other participants.

### Poster Sessions:

The Steering Committee encourages registrations from professionals who are able to prepare and present a poster on a relevant project. Details of the poster size and facilities will be provided in the joining instructions.

### Attendance:

Registrations will be accepted on a first-come-first-served basis. The Steering Committee encourages attendance from those who can contribute to the workshop most effectively either in discussions or with posters. A mix of attendees in terms of geographic origin, companies and discipline will be encouraged.

### Scribe:

The Steering Committee will appoint a "scribe" to record the discussions and to produce the full Workshop Report for SPE. This report will be circulated to all attendees as the Workshop deliverable within 4-6 weeks following the Workshop. The copyright of the report is with SPE.

### Attendance Certificate:

All attendees will receive an attendance certificate attesting to their participation in the workshop. This certificate will be provided in exchange for a completed workshop questionnaire.

### Continuing Education Units:

This workshop qualifies for SPE Continuing Education Units (CEU) at the rate of 0.1 CEU per hour of the Workshop.

### Cost and Residency Information:

This is a Non-Residential Workshop. The registration fee will be **USD 1,750** for **SPE Members** and **USD 1,850** for **Non-Members**. Fees include welcome reception and dinner on 28 April 2008, all workshop sessions, coffee breaks and luncheons.

Hotel accommodation is not included in your registration fee. However, an SPE rate has been negotiated with the Le Royal Meridien, Abu Dhabi for this workshop.

For information on the hotel please visit:  
<http://www.royalabudhabi.lemeridien.com>

### Cancellation and Refund Policy:

- a) A processing fee of **USD 100** will be charged for cancellations received before the registration deadline **10 April 2008**.
- b) For cancellations received after the registration deadline **10 April 2008**, 25% refund will be made to the registrant.
- c) No refund on cancellations received within seven (7) days prior to the Workshop date, i.e. on or after **21 April 2008**.
- d) No refund will be issued if a registrant fails to attend the Workshop.

## Tentative Technical Agenda

### Monday, 28 April

#### 1800-1900 hrs

Collection of Badges from Registration Counter

#### 1900 hrs

Welcome Reception and Dinner

### Tuesday, 29 April

#### Session 1:

##### **Why and Where is ERD Applicable / Feasible**

During this session key players from the industry will share their company's perspectives on why an operator would consider ERD application as a viable option, despite all the challenges, high cost and risks associated with ERD.

#### Session 2:

##### **Project Planning**

ERD applications require special attention and project planning. As with directional wells, many risks require evaluation and contingencies which have to be put in place, even more so when considering the planning with ERD operations.

With a much extensive range of technologies to apply, information to capture real time, diverse teams to work together, careful planning for ERD projects becomes of utmost importance.

This session will demonstrate essential project planning techniques that have been used to help set the scene for successful drilling and completion programmes for ERD wells.

#### Session 3:

##### **Optimising Rig Technology for ERD**

ERD poses new challenges for the drilling contractors with increased surface hydraulics, rotary torque and hook load requirements. This requires additional standback and deck capacity that has to be addressed by either rig upgrade or provision of new specification rigs.

### Wednesday, 30 April

#### Session 4:

##### **ERD Well Design Challenges**

The delivery and execution of extended reach wells (ERWs) push many of the conventional techniques to the limits. The challenges and risks need to be continually assessed and measured with knowledge captured to improve the well design process. Understanding and addressing the challenges specific to extended reach well design is key to the projects ultimate success.

#### Session 5:

##### **ERD: Engineering Solutions**

Increased demand for higher oil production requires not only drilling more wells but also innovative technology solutions. In the meantime, drilling expertise is getting seriously eroded. This altogether makes it crucial to get expertise alignment, alliance, team work and collaboration among industry stakeholders.

The technology could help the drilling community with different solutions among which real time operating centre technology is a venue through which well construction players (OPCO, services providers and drilling contractors) can together monitor, analyse and take the right decision at the right time.



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