



Society of Petroleum Engineers

27-29 September 2010 | JW Marriott Hotel | Cairo, Egypt

Register by 1 September 2010

SPE Applied Technology Workshop

Deep Wells Challenges 2



Who Should Attend?

Drilling and completion engineers, geologists, petrophysicists, rig operators, drilling team leaders and management.

Committee Members

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Osama El Bakly
Khalda Petroleum Company

Co-chairperson

Omar Husaini
Saudi Aramco

Co-chairperson

Ricky Bohannon
Dana Gas Egypt

Ahmed Samir

Halliburton

Ali Salem

Egyptian Drilling Company

Ashraf Rafail

Baker Hughes

Essam A. Fattah

Midco Oilfield Services

John Craig

Cameron

Khaled Fawzi

Schlumberger

Mamdouh Mahfouz

Intro Group

Mohammed Said

PDC

Said Zaki

Weatherford

Workshop Description

There has been greater emphasis placed on deep drilling activities worldwide and in particular in the Middle East region. Challenges associated with this kind of drilling are common among all involved in it, including operators, drilling contractors, service providers as well as equipment manufacturers. The fact that deep wells are associated with HPHT environment, abrasive formations, special completions requirement, demanding formation evaluation and others adds an element of complexity to an already complex operation.

The objective of this workshop is to bring together experts of different disciplines involved in all phases of deep well drilling to address issues related to challenges associated with these deep wells.

The workshop will also address areas relating to economics, planning, engineering, formation evaluation, completion strategies, operational challenges, case histories, technologies and other related topics in the area of green drilling.

The workshop will serve as a platform for all attendees to exchange experiences, address current and future challenges and collaborate to bring about solutions or at least pro-actively identify upcoming issues in order to address them before they occur.

www.spe.org/events/10aca2

Sponsorship Support

Sponsorship support helps offset the cost of producing workshops and allows SPE to keep the attendance price within reach of operations-level individuals, those who benefit most from these technical workshops.

Sponsors benefit both directly and indirectly by having their names associated with a specific workshop.

While SPE prohibits any type of commercialism within the conference hall itself, the society recognises that sponsoring companies offer valuable information to attendees outside the technical sessions.

Sponsorship Categories

Sponsorships are offered on a first come basis. Please contact SPE to verify the availability of a particular sponsorship. Existing sponsors have the opportunity to renew the same level of sponsorship for annual workshops.

The Available Sponsorship Packages are:

- Gold
- Silver
- Bronze
- Welcome Reception and Dinner
- Workshop Coffee Break—Per Day
- Luncheon—Per Day
- Audio—Visual Equipment

Sponsorship Benefits

In addition to onsite recognition; SPE will recognise sponsors on the SPE website and in all printed material for the workshop. Based on the sponsorship selected, sponsoring companies also receive logo visibility on promotional workshop items.

For More Information

For a detailed list of available sponsorships, including benefits and pricing, contact Deepa Choitram, at dchoitram@spe.org.

Group Discounts

2–3 delegates receive 15% discount
4–5 delegates receive 20% discount
6 or more delegates receive 25% discount

Workshop Sponsors

Coffee Break Sponsor



Tentative Schedule

Monday, 27 September 2010

Training Course: “Deep Drilling Design Concepts” by Dr. Abdel Sattar Dahab, Cairo University

Technical concepts in HPHT drilling are reviewed and the specific design steps and tools are discussed for the key planning processes. Formation pressure prediction, fracture pressure determination, casing setting depth, drilling fluids rheology, hydraulics, bit selection and cementing program are highlighted. Participants leave the course with a thorough understanding of the entire HPHT well planning, implementation and analysis process, and specific design steps, processes and checklists.

Tuesday, 28 September 2010

Session 1: Economics

In our industry today the key element is economics which do not start or end with cost. The elements of economics include well feasibility, proper contracts and insurance, risk and mitigation and logistics. From the design, contract negotiations, well spud in, the tie-in, to the production facilities, several areas could be investigated for cost optimisation. The engineer endeavors to study possible solutions to bring the cost of the well down, which will always include the risk analysis and how he can mitigate these risks in a safe and cost effective manner.

Despite the fact that technology is normally expensive, if rationally applied, it will definitely save money by selecting the right skills, equipment and material which will enhance performance and consequently save time and cost. Innovative drilling concepts, drilling without damaging reservoirs, drilling and completing wells with zero loss time, are all contributing factors to achieve good and economically drilled wells. In deep wells the need to consider economics in well construction is much more as deep wells are usually associated with more difficult scenarios and costly solutions.

Session 2: Well Planning

Planning, drilling and completing deep wells is a big challenge economically. Reducing the cost of deep drilling will require that we reduce the time it takes to safely drill a well, as the depth of the hole increases, control over well bore trajectory and the placement of casing become increasingly difficult, as does the efficient removal of drill cuttings. The difficulty of cementing wells increases with depth, not only due to the increased potential for poor mud displacement and lost circulation, but also due to the effects of higher temperature on cement setting behaviour. The cost of drilling and completing deep wells rises with the increase in the number and frequency of drilling problems and the increasing length of time it takes to correct them. But costs also are greater simply because of the physical requirements of a deep well. Deeper holes require longer drill strings and longer casing strings and thus require rigs rated to support such weights. These rigs are large and expensive, and only a limited number are available, increasing their cost. The result is that in very deep wells, drilling the last 10 percent of the hole can consume as much as 50 percent of the total drilling cost.

Wednesday, 29 September 2010

Session 3: Applied Technologies

The oil and gas industry was one of the earliest areas where technologies knocked its doors extensively. More over the dramatic changes in drilling, logging and completion methods have raised the needs to ensure they fit the purpose for technologies and they are very well defined and applied in all aspects. These applied technologies have been driving both needs from the operators, contractors and service companies as well, irrespective of whether this was in the middle of a hot desert or in cold Alaska, or whether this was in land or at deep water offshore operations.

This session will demonstrate several experiences addressing deep wells related issues to be shared with the attendees.

Session 4: Case Histories

Case histories are often a rich learning reservoir full of opportunities that can be captured from the operators, contractors and service companies past experience. This session is an opportunity to bring to surface all of these past experiences, to build on their successes and to learn and prevent similar failures. Learning from the past and from others will with no doubt enhance our deep well drilling experience. This venue will bring the past and people experience together to maximise the learning. The session will allow presenters to address all aspects of deep well drilling from past experiences and to share them with the attendees.

Register by 1 September 2010

Workshop Guidelines

Workshop Venue:

JW Marriott® Marriott Cairo
 Ring Road- Mirage City
 P.O.Box 427, 11757 Heliopolis
 Cairo, Egypt
 Tel: +202.24.11.5588
 Fax: +202.24.11.2266
 Website: <http://www.marriott.com/hotels/travel/caijw-jw-marriott-hotel-cairo/>

Format:

Two days of informal discussions prompted by selected keynote presentations and discussions. Workshops maximise the exchange of ideas among attendees and presenters through brief technical presentations followed by extended Q&A periods. Focused topics attract an informed audience eager to discuss issues critical to advancing both technology and best practices. The majority of the presentations are in the form of case studies, highlighting engineering achievements and lessons learned. In order to stimulate frank discussion, no proceedings are published and the press is not invited to attend.

Documentation:

- Proceedings will not be published; therefore, formal papers and handouts are not expected from speakers.
- Work in progress new ideas, and interesting projects are sought.
- Professionally-prepared visual aids are not required; handwritten view graphs are entirely acceptable.
- Note-taking by participants is encouraged.

Poster Sessions:

The Steering Committee encourages registrations from professionals who are able to prepare and present a poster on a relevant project. For further details kindly contact Deepa Choitram, event manager at dchoitram@spe.org.

Attendance:

Registrations will be accepted on a first-come first-serve 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 disciplines will be encouraged.

Workshop Deliverables:

- 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.
- PowerPoint presentation materials will be posted on a specific SPE URL address after the workshop. Provision of the materials by the speakers will signify their permission for SPE to do so.

Commercialism:

In keeping with ATW objectives and the SPE mission, commercialism in posters or presentations will not be permitted. Company logos must be limited to the title slide and used only to indicate the affiliation of the presenter and others involved in the work.

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:

Attendees at this workshop qualify for SPE Continuing Education Units (CEU) at the rate of 0.1 CEU per hour of the workshop.

Registration Information:

The fee includes the following:

- All workshop sessions
- Daily coffee breaks and luncheons
- Workshop workbook

Note: Registration fee does NOT include hotel accommodation for attendees.

Workshop Registration Fee:

One Day Training Course ONLY	USD 450 for SPE Members	USD 550 for Nonmembers
Two Days Workshop (Excluding the Training Course)	USD 1,100 for SPE Members	USD 1,200 for Nonmembers
Three Days Workshop (Including the Training Course)	USD 1,450 for SPE Members	USD 1,550 for Nonmembers

Registration Policy:

- Registration fee MUST be paid in advance for attending the Applied Technology Workshop.
- Full fixed fee is charged regardless of the length of time that the registrant attends the workshop.
- Fixed fee cannot be prorated or reduced for anyone (Co-chairpersons, committee members, speakers, discussion leaders, students and registrants).
- Attendees are expected to attend all workshop sessions and are not permitted to attend on a partial basis.

Cancellation and Refund Policy:

- A processing fee of USD 100 will be charged for cancellations received before the registration deadline 01 September 2010.
- For cancellations received after the registration deadline, 1 September 2010, 25% refund will be made to the registrant.
- No refund on cancellations received within seven (7) days prior to the workshop date, i.e. on or after 20 September 2010.
- No refund will be issued if a registrant fails to attend the workshop.

SPE Training Course “Deep Drilling Design Concepts”

27 September 2010 | JW Marriott Hotel | Cairo, Egypt
In conjunction with the SPE Applied Technology Workshop:
Deep Wells Challenges 2

Who Should Attend?

Individuals involved in HPHT well planning and operations who want to strengthen their well planning skills, especially experienced drilling engineers, mud engineers and geoscientists

Training Course Abstract

Technical concepts in HPHT drilling are reviewed and the specific design steps and tools are discussed for the key planning processes. Formation pressure prediction, fracture pressure determination, casing setting depth, drilling fluids rheology, hydraulics, bit selection and cementing programme are highlighted. Participants leave the course with a thorough understanding of the entire HPHT well planning, implementation and analysis process, and specific design steps, processes, and checklists.

About the Speaker

Dr. Abdel-Sattar Dahab was born in Shebin El-Koom Monofia, Egypt, on April 12, 1950. He obtained his B.Sc. and M.Sc. degrees in petroleum engineering from Cairo University in 1973 and 1976 respectively. He was an instructor at Cairo University for three years before he left for his graduate studies leading to Ph.D. in France and got his Ph.D. from National Polytechnical Institute of Loraine, Nancy, France in 1980. Dahab then joined Cairo University, Egypt as an assistant professor of drilling engineering. He was promoted to the rank of full professor in 1991. Currently, Dahab is the chairman of Petroleum Engineering Department and professor of drilling engineering at Cairo University, Egypt.

Dr. Dahab was a consultant engineer in drilling department on part-time basis in Gulf of Suez Petroleum Company (GUPCO), Egypt during 1981-1982 and 1983-1985. He was the SPE Continuing Education Chairman, Egyptian section and SPE Faculty Sponsor, Cairo University for many years. Dahab worked as a visiting professor in ENSG, INPL, Nancy, France in 1982-1983, where he established a linkage programme between the Department of Petroleum Engineering, Cairo University and Laboratoire Substances Utiles et Energetique, Nancy, France.

Dr. Dahab participated in evaluating many petroleum engineering projects and technical papers in the area of drilling engineering, formation damage and engineering geology for national and international journals. He was the general secretary of the faculty council, faculty of engineering, Cairo University during 1992-1993.

Dr. Dahab offered many short and training courses in the area of drilling optimisation, underbalanced drilling, horizontal drilling, drilling fluids, well stimulation, well control, well completion and workovers for petroleum engineers in Egypt, Syria, Libya, Tunisia, UAE, Kuwait, Saudi Arabia, Sudan, Qatar, Oman and Algeria. Dr. Dahab supervised a large number of M.Sc. and Ph.D. thesis in Cairo University and KSU. He published over 60 technical papers in different specialised national and international journals and conference proceedings. He participated in writing and editing a book entitled “Encyclopedia of Petroleum Engineering Terms” published by KSU press, Saudi Arabia.



Training Course Objectives

By the end of this course the participant will be able to:

- Understand the design concepts in HPHT drilling
- Know how to analyse offset data
- Predict formation pressure
- Calculate fracture pressure
- Select the casing setting depth
- Select drilling fluids
- Design cement slurry to avoid HPHT problems
- Test drilling fluids rheology at HPHT
- Understand the contaminants of drilling fluids
- Monitor performance
- Deal with bore-hole problems related to drilling fluids, pressure prediction and control

Training Course Content

- Elements of successful planning/optimisation
- Offset and data analysis
- Formation pressure prediction
- Fracture pressure determination
- Casing setting depth selection
- Drilling fluids
- Well hydraulics
- Cementing practices
- Optimisation of drilling parameters

Cost and Residency Information

This is a non-residential training course. The training course registration fees includes training course materials, coffee breaks and luncheon.

The registration fees are as follows:

SPE Members: USD 450

Nonmembers: USD 550

To register for the training course, please use inside form for registration and fax it to +971.4.366.4648 or email it to formsdubai@spe.org.

Alternatively, log into www.spe.org/events/10aca2

REGISTRATION FORM

SPE Training Course “Deep Drilling Design Concepts”

27 September 2010 | JW Marriott Hotel | Cairo, Egypt

**Important: Attendance is limited and is not guaranteed.
Registration fee MUST be paid in advance for attending the training course. Unpaid delegates will not be allowed to attend.
Early registration is recommended. Please print or type in black ink.**

First Name/Forename _____ Middle Name _____

Last/Family Name _____ SPE Member? Yes No

Member No. _____ Job Title _____

Company/Organisation _____

Street or P.O. Box Number _____ City _____

State/Province _____ Zip/Postal Code _____ Country _____

Telephone _____ Facsimile _____

Email (required) _____

Training Course Fee: *One Day Training Course ONLY* USD 450 for SPE Members USD 550 for Nonmembers

Training Course Fee includes: Technical session, materials, luncheon and coffee breaks.

Accommodations are NOT included in the training course registration fee.

Credit Card (Check One): American Express MasterCard Visa

NO REFUNDS will be granted on cancellations after 1 September 2010.

Card Number (will be billed through Society of Petroleum Engineers)

Expiration Date (mm/yy)

Name of Credit Card Holder (printed) _____

Signature: (required) _____ Date _____

Please inform us of mobility or special dietary needs _____

Payment by Bank Transfer:

IMPORTANT - Please Quote “10ACA2” and Name of Delegate

Make Payment to:

HSBC Bank Middle East, Jebel Ali Branch, PO Box 66, Dubai, UAE

Account Name: SPE Middle East FZ-LLC

Account Number: 035-129709-100

Swift Code: BBMEAED

NOT AN SPE MEMBER?
**Join SPE Today and receive two years
membership for the price of one!**

I would like to avail of this offer:

Yes No

Cancellation and Refund Policy:

- A processing fee of USD 100 will be charged for cancellations received before the registration deadline 1 September 2010.
- For cancellations received after the registration deadline, 1 September 2010, 25% refund will be made to the registrant.
- No refund on cancellations received within seven (7) days prior to the workshop date, i.e. on or after 20 September 2010.
- No refund will be issued if a registrant fails to attend the workshop.

Visa:

SPE Middle East, North Africa and India will assist in providing a visa invitation letter, upon request in writing, to confirmed registrants after receiving full payment of registration fees. Visa invitation letters take five days to issue from the date of request and it is the delegate's responsibility to obtain their own visa. SPE cannot issue the visa nor can we guarantee it will be obtained.

To submit your registration online, please visit the event's website at: www.spe.org/events/10aca2.
Alternatively, you can email this form to: formsdubai@spe.org, or fax it to: +971.4.366.4648.