

SPE WORKSHOP



Society of Petroleum Engineers

16-17 May 2017

Sofitel Corniche | Abu Dhabi UAE

www.spe.org/events/17adu3

SPE Workshop: Added Value with Coiled Tubing

The global energy depression has had a significant impact on the oil and gas industry affecting all areas, from exploration appraisal and development, to transportation and sales. The impact can be measured clearly by the reduction in rig count and well services fleets worldwide.

Well services has been equally affected, as operational expenditures are increasingly constrained by budget cuts, having a direct impact on service companies, equipment manufacturers and suppliers. Well intervention through coiled tubing offers a very competitive solution for light workover, plug and abandonment and production enhancement, when planned, designed and executed in a rig-less environment, adding significant value to the industry in times of challenging economics.

Equipment, coiled tubing pipe and downhole tool manufacturers play an important role in the development of value added solutions, by enabling service companies to provide a more efficient and reliable service that can result in attractive cost optimization. Value however, is not only observed through cost reduction, and by increasing personnel competency and awareness, coiled tubing intervention scope can be expanded further, whilst maintaining continuous focus on safe and compliant accident free operations.

Coiled tubing applications today are very extensive and in order to share practices that add value to operators in current market conditions, the workshop will focus on alternative coiled tubing applications, stimulation, fluid placement, and extended reach challenges and techniques.

This workshop aims to bring together industry experts from coiled tubing service providers, downhole tools, pipe and equipment manufacturers, operating companies, academia, and many more. Experts will share case studies and will showcase the latest technologies to enable advanced and alternative applications that deliver added value to light work over and well intervention. The workshop will also offer opportunities for networking and for dedicated group discussions on how to get the best out of coiled tubing technologies.

REGISTER BY
1 APRIL 2017
TO AVOID LATE FEES

WHO SHOULD ATTEND

- Drilling and completion engineers
- Petroleum and reservoir engineers
- Production and operations engineers and technologists
- Well services supervisors
- Wellhead and PCE manufacturers
- CT pipe and equipment manufacturers
- Research and development scientists
- Management and sales executives
- CWI engineers and supervisors
- University staff and academia

Supporting Organisation & Training Sponsor

Coffee Break Sponsor - 16 May 2017



COMMITTEE MEMBERS

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BRVR Consultants

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Lucas Mezzano
Tenaris

Kerry Quick

National OilWell Varco

Tim Ramsey
Baker Hughes

Sonny Sola
Nordic Energy

SPE Workshop: Added Value with Coiled Tubing



Training Course:

Monday, 15 May 2017 0800-1600
Instructor: Todd Green, Petroleum Engineering Specialist, Aramco Services Company

Coiled Tubing Engineering and Best Practices

For more information the website -
www.spe.org/training/courses/CTE

SCHEDULE

TUESDAY, 16 MAY 2017

0730-0830 | Welcome Coffee, Collection of Badges and Delegate Packs

0830-0840 | Hotel Safety and Security Briefing, Co-Chairpersons/Committee Introduction

0840-0900 | Workshop Opening Keynote Address
Teoman Altinkopru, VP Well Intervention, Schlumberger

0900-1000 | **Session 1: Competency and Safety in Operations**

Session Chairs: Pierre Fize, Arcelor Mittal; Jacques Attie (Independent)

Because of the oil downturn and the rapid changes in economics, maintaining the core competencies and having the teams focusing on safety are becoming growing challenges.

Aggregating the suppliers best practices and innovations to the conventional methodologies have been proved out to be the smartest way to face these common challenges and make sure our industry remains sustainable on the long run.

This session will focus on best practices shared by the industry, as well as technologies develop to support the industry competencies and capabilities.

1100-1030 | Coffee Break/Poster Presentation

1030-1130 | Session 1 Continued

1130-1330 | **Session 2: Equipment and Manufacturing**

Session Chairs: Kerry Quick, NOV; Lucas Mezzano, Tenaris

As the industry has changed and adjusted to the new economic reality of lower cost operations, coiled tubing has become an important opportunity for value added differentiation. Coiled tubing manufacturing and design, along with surface equipment improvements, is an important way to leverage on more efficient operations leading to improved reliability and life span, cost optimization and revenue in existing applications and new ones as the usage envelope is expanded.

This session will look at the best practices for coiled tubing materials, manufacturing and string design as well as the latest technologies for surface equipment.

1330-1430 | 1330 - 1430 Luncheon

1430 | **Session 3: Coiled Tubing Downhole Tools**

Session Chairs: Dhafir AlBadraoui, Well Services Group BV; Sonny Sola, Nordic Energy

Coiled Tubing operations pose a host of wellbore related challenges; hence there is a need for good down hole tools which are not only

easy to operate but can also be used to perform wellbore departures and simulations with ease and convenience. The tools minimize non-productive time as they ensure that all aspects of the downhole environment are comprehensively modelled. Thru tubing equipment are the specially designed equipment which are used to perform various wellbore related activities such as isolation, stimulation, fishing, etc.

This session will look at down hole tools for coiled tubing operations, as well as the latest technologies for and designs for down hole tools.

1530-1600 | Coffee Break/Poster Presentation

1600-1700 | Session 2 Continued

WEDNESDAY, 17 MAY 2017

0830-0900 | Welcome Coffee, Collection of Badges and Delegate Packs

0900-1100 | **Session 4: Alternative Coiled Tubing Applications**

Session Chairs: Jason Wheatley, ZADCO; Naser Al Houti, KOC

The coiled tubing operation since it is known in the current form on 1960, expanded its applications and type services day over day, starting from the conventional application such as lifting, acid pumping, cleaning,... till today where CT imposed itself as an alternative solution to many services like drilling, Artificial lift, ESP and other applications

Coiled tubing is considered a fertile field for new technology where we start to see different approaches like radial drilling, underbalance drilling, CT Frac and many other applications.

In this session we would like to have a chance to discuss all the challenges that came up into intervention and how coiled tubing services has been re-designed to overcome the obstacles in every aspect in the oil field and to share successful alternative applications of coiled tubing and the main challenges that managed to be solved using coiled Tubing and also the lessons learnt and way to improve it more.

1100-1130 | Coffee Break/Poster Presentation

1130-1300 | **Session 5: Stimulation and Fluid Placement Techniques**

Session Chairs: Fernando Baez, BRVR Consultants; Oscar Alvarado, Oilserv

Coiled Tubing is a great tool to enhance fluid placement strategies, not only because it can protect the wellbore tubulars while pumping harsh chemicals, but also because it allows the operator to pinpoint the treatment at the reservoir sections with the highest production potential. Furthermore, the placement of fluids at the right depth can be achieved when using mechanical and/or chemical diversion techniques coupled with a deep understanding of the reservoir characteristics requiring either a stimulation or a gas/water control treatment for production optimization.

Conventional coiled tubing stimulation techniques implies pumping large volumes to get in contact with the reservoir while assuming that fluids will penetrate the rock uniformly; which is not the case in an oil or gas well requiring a repair or production recovery intervention, neither in an injector well requiring better connectivity to adjacent wells. Using downhole tools and new techniques is possible to optimize treatment volumes bringing additional value to the operators.

Fluid placement for water and gas control is also key in well production enhancement, and placement at wrong depths can completely place a well offline; so appropriate and improved techniques are used today to keep a high success rate of these interventions.

In this session, we will discuss case studies that involve stimulation jobs with coiled tubing including matrix and fracture interventions, as well as fluid placement techniques used for these treatments. The session is also open to cases related to water and/or gas control interventions with coiled tubing.

1300-1400 | Luncheon

1400-1530 | Session 6: Extended Reach Techniques and Challenges

Session Chairs: Karan Gupta, SLB; Saad Al-Driveesh, Saudi Aramco; Thomas Metzger, ZADCO

In today's world, drilling of extended reach wells is becoming increasingly common. Apart from the inherent advantages of increasing the reservoir contact to maximize productivity and drainage capability, the current economic environment requires that oil companies look to optimize drilling costs by drilling fewer wells within the same reservoir without inhibition to production or reservoir contact.

Modern drilling technology allows us to drill extended and even mega-reach wells to accomplish this, however, the coiled tubing industry is one step behind. Despite the difficulties and challenges in the manufacturing of extremely long CT strings, logistics, job design and execution, extended reach wells will continue to push the envelope of possibility in the coiled tubing industry today.

This session will look at both current and future technologies, such as downhole tractors, other mechanical technologies and friction reducing chemicals, which will enable the highest prospect of total accessibility.

Presenters will use case studies to share their experience and also present technology and product enhancements to exhibit the best solutions that exist in the market today and where the advancement of research and technology will take us in the future.

1530 - 1600 | Coffee Break/Poster Presentation

1600-1730 | Session 7: Optimising Cost and Adding value

Session Chairs: Mohammed Khalil, Halliburton; Lei, Jason Oil & Gas; Tim Ramsey, Baker Hughes

In today's environment of low price oil, our industry must find ways to continuously improve our efficiency and effectiveness. Coiled tubing (CT) operations are one area with significant room for improvement in terms of both optimizing costs and adding value. This is because, while CT has been around for a long time, its downhole capabilities have not evolved as quickly as other technologies in our industry. As a result, many within CT operations continue to employ methods and techniques that were developed decades ago.

Recent advances in CT technology now offer more certainty in terms of smarter solutions that drive both the efficiency and effectiveness of these operations. This optimization process can span across methodology, best practices, and associated CT technology. The net benefit for current CT interventions should be more certainty in terms of smarter solutions that drive both the efficiency and effectiveness. However, the remaining challenge is the integration of these technologies into CT operations across multiple applications with minimal disruption and a high level of reliability and efficiency.

Presenters will showcase case histories involving newly developed work flows, best practices, and technologies that deliver CT intervention solutions with a reduction in cost and increase in effectiveness and efficiency.

GENERAL INFORMATION

Format – Two days of informal discussions prompted by selected keynote presentations and discussions. Focused topics and issues critical to advancing both technology and best practices. Majority of the presentations are in the form of case studies, highlighting engineering achievements, and lessons learnt. 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.

Poster Session – The Steering Committee encourages registrations from professionals who are able to prepare and present a poster on a relevant project.

Attendance – Registrations will be accepted on a first-come, first-serve basis. The Steering Committee encourages attendance from those who can contribute effectively either in discussions or with posters.

Workshop Deliverables

The Steering Committee will appoint a "scribe" to record the discussions and to produce the full workshop report for SPE.

Commercialism – Commercialism in posters or presentations will not be permitted.

Attendance Certificate – All attendees will receive an attendance certificate attesting to their participation in the workshop.

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 – This is a nonresidential workshop and therefore hotel accommodation is not included in the registration fees. The registration fees include all workshop sessions, coffee breaks, and luncheons.

Cancellation and Refund Policy

- A processing fee of USD 100 will be charged for cancellations received before the registration deadline 14 April 2017.
- For cancellations received after the registration deadline, 14 April 2017, 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 8 May 2017.

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 (workshop co-chairpersons, committee members, speakers, discussion leaders, students, and registrants).
- Delegates with no proof of advance payment are required to pay onsite by cash or cheque, present a copy of the wire transfer, or submit a letter from their company guaranteeing payment of the workshop fees.

SPONSORSHIP INFORMATION

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 workshop 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.

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 **Norvie Wersner** at nwiesner@spe.org.

