



WORKSHOP

TECHNICAL PROGRAM

23-24 March 2010 | Hyatt Hill Country Resort | San Antonio, TX

www.spe.org/meetings

Sand Control Challenges

Technical Program Committee

Cochairpersons

Hugo Morales

Schlumberger

Steven Tinker

BP

Scott Bennett

Devon Energy

Jay Cooke

Helis Oil & Gas Company

Morris Cox

Nexen Petroleum USA

Don Cruise

Callon Petroleum Company

Shubhanan Dakshindas

Marathon Oil Company

Bernard Franklin

BJ Services

Larry Foster

Schlumberger

George Gillespie

Weatherford

Tonya Goosen

Halliburton

Chris Hines

Consultant

Srinagesh Marti

ConocoPhillips

Flavio Moraes

Petrobras

Mike Phi

ExxonMobil E&P

Malaysia

Ed Van Sickle

Baker Hughes

Adi Venkitaraman

Chevron

Lumay Viloría

Schlumberger

This applied technology workshop focuses on sand control techniques and the production life of the well. Topics of discussion will range from open-hole to cased-hole reservoirs. The strength of the workshop is its interactivity and thus depends on audience participation. We ask that the speakers keep their remarks brief and that all attendees actively participate by asking questions, airing comments, and sharing their observations. Open discussion of critical issues and exploitation of new methods will ensure this workshop has a lasting positive effect on our understanding of sand control challenges.

SPONSORS



HALLIBURTON



Schlumberger

General Information:

American With Disabilities Act

Our events and functions are accessible to all attendees with wheelchairs. If you require special arrangements, please contact our staff at the Registration Desk.

Alcohol Policy

SPE recognizes the legitimate serving of alcoholic beverages in the process of conducting business and social activities. We also recognize that the use and consumption of alcohol carries with it the requirement for all attendees to consume those beverages responsibly.

Commercialism

In remaining consistent with workshop objectives and SPE guidelines, commercialism in presentations will not be permitted. Company logos should be used only to indicate the affiliation of the presenter(s).

Continuing Education Units

Attendees will receive 1.6 CEUs.

One CEU equals 10 contact hours of participation. CEUs will be awarded through SPE Professional Development for participation and completion of SPE workshop. A permanent record of a participant's involvement and awarding of CEUs will be maintained by SPE.

Documentation

Following the workshop, a URL containing released copies of the workshop presentations will be available to attendees. A summary report of the workshop will also be made available. The copyright of the report will belong to SPE.

Guest/Spouse

Only registered guests are permitted to attend the receptions.

Mobile Phones and Pagers

As a courtesy to the speakers and your fellow registrants, please turn off all mobile phones during presentations.

Name Badges

Please wear your badge at all times. It is a courtesy to your fellow registrants, speakers and sponsors.

Photography Policy

SPE reserves the exclusive rights to all recording or reproductions of the workshop. Unauthorized recording is expressly prohibited, whether by video, still or digital camera, mobile phone, or any other means or form of reproduction.

Any person attending may be photographed or videotaped, and by your attendance, you give permission to use your image in possible future marketing publications including print, online, and video.

Posters

Posters will be located in the Fredericksburg Foyer throughout the two day workshop.

Workshop Format

Workshops maximize 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.

Many 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 members of the press are not invited to attend.

Schedule at a Glance:

Monday, 22 March 2010

6:00 – 7:30 p.m. **Welcome Reception – Courtyard Deck**

Tuesday, 23 March, 2010

**All technical sessions will be located in Fredericksburg A-C.*

7:00 – 8:00 a.m. **Registration – Fredericksburg Foyer**
Continental Breakfast – Fredericksburg Foyer

8:00 – 8:15 a.m. **Chairman's Welcome**

8:15 – 9:45 a.m. **SESSION I***

9:45 – 10:00 a.m. **Coffee Break – Fredericksburg Foyer**

10:00 – 11:30 a.m. **SESSION II***

11:30 a.m. – 12:30 p.m. **Lunch – Antlers Lodge**

12:30 – 2:00 p.m. **SESSION III***

2:00 – 2:15 p.m. **Coffee Break – Fredericksburg Foyer**

2:15 – 3:45 p.m. **SESSION IV***

3:45 – 5:15 p.m. **SESSION V***

5:15 – 7:00 p.m. **Reception – Luckenbach Pavillion**

Wednesday, 24 March 2010

7:00 – 8:00 a.m. **Continental Breakfast – Fredericksburg Foyer**

8:00 – 9:30 a.m. **SESSION VI***

9:30 – 10:00 a.m. **Coffee Break – Fredericksburg Foyer**

10:00 – 11:30 a.m. **SESSION VII***

11:30 a.m. – 1:00 p.m. **Keynote Lunch – Fredericksburg D-G**

1:00 – 2:30 p.m. **SESSION VIII***

2:30 – 3:00 p.m. **Coffee Break – Fredericksburg Foyer**

3:00 – 5:15 p.m. **SESSION IX***

Sand Control Challenges

Monday, 22 March 2010

5:30 – 7:00 p.m. Welcome Reception and Registration Check-In

Tuesday, 23 March 2010

7:00 – 8:00 a.m. Registration

Materials Sponsored by:



Continental Breakfast

Sponsored by:



8:00 – 8:15 a.m. Chairperson's Welcome – *Hugo Morales, Schlumberger*

8:15 – 9:45 a.m. **SESSION I: COMPLETION COMPLEXITY VS FINANCIAL REWARD**

Chairs: Scott Bennett, Devon Energy

Shubh Dakshindas, Marathon Oil Company

Presentation 1: First Lower Tertiary Completion Case History

Scott Ogier, Devon Energy

Presentation 2: LLANO Case Study

Doug Bolingbroke, Hess

Presentation 3: Challenges of Multiple Fracs and Stim Vessel Logistics

Harvey Fitzpatrick, Halliburton

9:45 – 10:00 a.m. Coffee Break

Sponsored by: **HALLIBURTON**

10:00 – 11:30 a.m. **SESSION II: MULTI-ZONE VS SINGLE-ZONE COMPLETIONS**

Chairs: Flavio Moraes, Petrobras

Morris Cox, Nexen Petroleum USA

Presentation 1: Risk Reward for Multi-Zone vs Stack Completions

Brad Clarkson, Nexen

Presentation 2: Longhorn Case Histories

Jack Sanford, Consultant

Presentation 3: Challenges for the Next Generation of Single-Trip Multi-Zone Fracpack Completions

Christian Capderou, Chevron

11:30 a.m. – 12:30 p.m. Lunch

12:30 – 2:00 p.m. **SESSION III: CHALLENGES AND SUCCESSES IN CASED HOLE RESERVOIRS**

Chairs: Steve Tinker, BP

Chris Hines, Consultant

Presentation 1: History and Applications of Alternative Path Systems (APS)

Bryan Stamm, Schlumberger

Presentation 2: Improving Sand Control Reliability - An Adaptive Approach*Charles Yeh, ExxonMobil***Presentation 3: Deepwater Perforating Event Shock-Modeling and Mitigation***LeRoy Stromme, Schlumberger*

2:00 – 2:15 p.m.

Coffee BreakSponsored by: **HALLIBURTON**

2:15 – 3:45 p.m.

SESSION IV: SAND CONTROL FOR INJECTORS*Chairs: Adi Venkitaraman, Chevron**Tonya Goosen, Halliburton***Presentation 1: United Kingdom Alba Field, Fifteen Year Water Injection Case History***Rick Dickerson, Chevron***Presentation 2: Performance and Design of Seawater Injectors Requiring Sand Control***George Wong, Shell***Presentation 3: Fracturing Open-Hole injectors thru Multi-Zone Inflow Control Device (ICD) Systems***Keith Parry, Weatherford*

3:45 – 5:15 p.m.

SESSION V: CHALLENGES AND SUCCESS IN OPEN-HOLE RESERVOIRS*Chairs: Mike Phi, ExxonMobil E&P Malaysia**Srinagesh Marti, ConocoPhillips***Meeting the world's energy demands will require one thing.
The world.**

The world's population grows by 250,000 people every 24 hours. It's expected that 8 billion people will occupy the earth in 2030, up from 6.5 billion today. Affordable and accessible supplies of energy are essential to economic growth and a reasonable standard of living. With oil and natural gas expected to meet more than 50 percent of the world's demand in 2030, it's a global challenge. Which is why Marathon is at work applying technology and building unique partnerships to deliver the energy people need. From advanced seismic and reservoir characterization tools to biofuels development and heavy oil sands upgrading, Marathon is committed to not only producing energy, but doing so in an environmentally responsible way that creates long-standing, mutually beneficial results. Responding to realities. That's Marathon.

**Marathon.com**

Sand Control Challenges

Presentation 1: Open-Hole Experiences

Bob Burton, ConocoPhillips

Presentation 2: Improving Productivity Through Open-Hole Fracpack Completion Design

E. Jake Kamps, ExxonMobil

Presentation 3: Open-Hole Challenges

Brian Evans, Baker Hughes

5:15 – 7:00 p.m.

Reception

Wednesday, 24 March 2010

7:00 – 8:00 a.m.

Registration

Materials Sponsored by:



Continental Breakfast

Sponsored by:



8:00 – 9:30 a.m.

SESSION VI: WORKOVER AND INTERVENTION OF PARTIALLY DEPLETED RESERVOIRS

Chairs: Jay Cooke, Helix Oil & Gas Company

Madalina Tatulescu, Schlumberger

Presentation 1: Case Histories of Remedial Sand Consolidation in Formation and Propped Fractures

Gary Hurst, BP

Presentation 2: A New Technique to Control Fines Migration in Unconsolidated Formation

Bala Gadiyar, Schlumberger

Presentation 3: Practical Adjustments Made to Recommended Gravel Packing Practices to Maximize Value of Thru-Tubing Sand Control

Joe Serio, W&T Offshore

9:30 – 10:00 a.m.

Coffee Break

10:00 – 11:30 a.m.

SESSION VII: SAND CONTROL INTEGRITY AND PERFORMANCE MONITORING

Chairs: Larry Foster, Schlumberger

George Gillespie, Weatherford

Presentation 1: Downhole Sand Detection

John Lovell, Schlumberger

Presentation 2: Gravel Pack and Tracer Logs: Interpretation and Limitations

Catherine Hyde-Barber, BP

Presentation 3: Experience with Inflow Control Devices (ICD) and/or Tracer in Open-Hole Completions

Nick Paris, BHP Billiton

11:30 a.m. – 1:00 p.m.

Keynote Lunch – *Mike Barry, ExxonMobil*

Sponsored by: **Schlumberger**

1:00 – 2:15 p.m.

SESSION VIII: CHALLENGES IN LONG HORIZONTALS

Chairs: Lumay Vioria, Schlumberger
Ed Van Sickle, Baker Hughes

Presentation 1: Inflow Control Device (ICD)/Flow Control

Gonzalo Garcia, BakerHughes

Presentation 2: The Holistic Application of Inflow Control Devices (ICDs) in Horizontal Wells

Ed Leung, Schlumberger

Presentation 3: Screen Selection and Testing Considerations for Horizontal Completions

Bob Burton, ConocoPhillips

2:30 – 3:00 p.m.

Coffee Break

3:00 – 5:15 p.m.

SESSION IX: PRODUCTION MANAGEMENT FOR SAND CONTROL

Chairs: Bernard Franklin, BJ Services
Don Cruise, Callon Petroleum Company

Presentation 1: Logging a Frac

Jack Sanford, Consultant

Presentation 2: Deploying Fiber Optic Monitoring Systems in the Lower Completions

Philippe Legrand, Baker Hughes

Presentation 3: Application of Flux Based Guidelines in Gulf of Mexico Deepwater Fields

Richard Keck, BP

Presentation 4: Balancing Act – Peak Rate vs. Risk of Sand Control Failure

George Wong, Shell

Open Discussion and Wrap-Up

Steven Tinker, BP

Posters – Displayed During the Workshop

- | | |
|--|--|
| <p>1) <i>Water Hammer Events in Injection Wells: Implications for Completion Design</i>
 <i>Somnath Mondal, University of Texas at Austin</i></p> <p>2) <i>Through-Tubing Sand Control Best Practices</i>
 <i>Allen Zamorano, Weatherford</i></p> <p>3) <i>Screen Selection Criteria for Wire Wrap and Metal Mesh Screens with Inflow Control Devices</i>
 <i>Steve Beare, Weatherford</i></p> <p>4) <i>Screen Selection for Stand-Alone Screen Applications: State of the Art</i>
 <i>Rajesh Chanpura, Schlumberger</i></p> | <p>5) <i>Sand Screen Deployment Tools for Extended Reach Drilling and Horizontal Wells</i>
 <i>Jim Oliver, Caledus</i></p> <p>6) <i>Using an Erosion Management System to Realize a Sand Management Strategy Enabling Increased Production</i>
 <i>Satish Baliga, ABB</i></p> <p>7) <i>Effective Zonal Isolation Can Improve Inflow Control Device (ICD) Performance</i>
 <i>Abdurrezagh Awid, Weatherford</i></p> |
|--|--|



SPE North America Workshops

2010

13-14 April	Drilling Automation	Moody Gardens Hotel and Convention Center Galveston, TX
27-29 April	Tight Gas Completions: Technology Applications and Best Practices	Brown Palace Hotel Denver, CO
6-9 June	SEG/SPE/AAPG Shale Workshop: Seal, Reservoir, Source	Austin, TX
29-30 June	SPE/AAPG/SEG Joint Workshop: Quantitative Interpretation – Reducing Uncertainty Through Integration of Petrophysics, Geophysics, Geomodeling, and Reservoir Simulation	Brown Palace Hotel Denver, CO
4-6 August	Maximizing Tight Oil in the Bakken	Keystone Resort Keystone, CO
24-25 August	Distributed Fiber-Optic Sensing for Well and Reservoir Monitoring	Barton Creek Resort Austin, TX
4-5 October	SPE/AAPG Naturally Fractured Reservoirs	Vail, CO
October, TBD	Final Commissioning and Initial Start-Up	Austin, TX

Upcoming Conferences

3-6 May	Offshore Technology Conference (OTC)	Houston, TX
20-22 September	SPE Annual Technical Conference and Exhibits (ATCE)	Florence, Italy
19-21 October	SPE Canadian Unconventional Resources and International Petroleum Conference (CURIPC)	Calgary, Canada

www.spe.org/meetings