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Society of Petroleum Engineers

1–3 September 2010 | Zuana Beach Resort | Santa Marta, Colombia

Drilling & Completions: SAND CONTROL



Who Should Attend?

- Production Engineers
- Completion Engineers
- Reservoir Engineers
- Field Operation Engineers
- Geologists
- Petrophysicists
- Geomechanics
- Academia

This is an interactive workshop where audience participation is encouraged. We invite all attendees to ask questions and share their experiences, comments, and observations. Open discussion is the key to gain better understanding of sand production and the challenges it faces.

Committee Members

Co chairperson
Mauricio Gutierrez
Halliburton

Co chairperson
Ken Lizak
Shell

Carlos Añez
Chevron

David Attaway
Halliburton

Mauricio Fernandez
Weatherford

Kerby Dufrene
Schlumberger

Kirk Huber
Baker Hughes

Mohammed Solliman
Halliburton

Manuel Jaimes
Ecopetrol

Simultaneous translations from Spanish to English or vice versa is available during this workshop.

Workshop Description

This workshop discusses the many challenges facing the sand production industry. Understanding sand production mechanisms, development and implementation of sand prediction methods, establishment of sand management, and sand control strategies are all critical issues of sand production at any stage of reservoir and well life.

This Applied Technology Workshop is designed for dedicated professionals with diverse experiences and disciplines who are currently managing the challenges of sand production in the Americas.

Session Topics

- Methods of sand management
- Sand management in viscous oil
- Chemical sand control and near-wellbore fines migration
- Real time data transmission and failure detection
- Sand control in horizontal and MLT wells
- Sand control for injection wells
- Multizone completions
- Sand control considerations in high-granulometric heterogeneity
- Compaction and subsidence

Methodology

This two day ATW will have three or four presentations per technical session. Each presentation will take 20 minutes with 10 minutes of questions and discussions. At the end of the second day a summary for each technical session will be consolidated by the session chairpersons and all the lessons learned will be presented to the audience.

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 technical session room itself, the society recognises that sponsoring companies offer valuable information to attendees outside the technical sessions.

Sponsorship Opportunities

There are opportunities for participation as speakers and/or sponsors for this ATW.

Sponsorship Categories

Sponsorships are offered on a first come first served basis. Please contact SPE to verify the availability of a particular Sponsorship. Sponsorship Categories are:

- Gold
- Silver
- Bronze
- Welcome Reception

Sponsorship Benefits

In addition to on-site 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 material.

For More Information

For a detailed list of available sponsorships, including benefits and pricing, please contact Victoria Munoz-Vivero at vmvivero@spe.org.

Schedule

Wednesday, 1 September

0700–0745Registration and Continental Breakfast
0745–0800Opening Comments
0800–0830.....Keynote Speaker
0830–1000Session I
1000–1015.....Coffee Break
1015–1200.....Session II
1200–1400Luncheon
1400–1530Session III
1530–1545Coffee Break
1545–1715.....Session IV
1830–1930Welcome Reception

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Thursday, 2 September

0730–0815Registration and Continental Breakfast
0815–0830Opening Comments
0830–1000Session V
1000–1015.....Coffee Break
1015–1200.....Session VI
1200–1400Luncheon
1400–1530Session VII
1530–1545Coffee Break
1545–1715.....Session VIII

Friday, 3 September

0730–0815Registration and Continental Breakfast
0815–0830Opening Comments
0830–1000Session IX
1000–1015.....Coffee Break
1015–1215Closing sessions

Note: While every attempt will be made to adhere to the schedule, the status/availability of speakers and moderators is subject to change.

Preliminary Technical Agenda

Wednesday, September 1

0745–0800 **Opening Comments and Keynote Speaker**

0830–1000 **Session 1: Methods for Prediction of Onset of Sanding—Methods to Predict Amount of Produced Sand**

This session will discuss the analytical and numerical techniques to predict the onset of sanding. It will also discuss the parameters with maximum effect on the onset of sanding. Methods to quantify the amount of produced sand with time will also be discussed.

1015–1200 **Session 2: Sand Management in Viscous Oil—Surface Solutions**

Focused talks on matters affecting sand management in viscous oil producing reservoirs. This session will focus on both downhole and surface solutions dealing with sand production from viscous oil producing reservoirs. Our discussions will include a decision matrix, current industry solutions, and future challenges.

1400–1530 **Session 3: Near Well-bore Fines Migration & Chemical Sand Control**

The presence of extremely fine mobile formation fines complicates sand control completion design. Often, the completion is designed to allow these fines to migrate through the sand control and be produced to the surface. However, this movement of very fine formation particles can result in significant near wellbore damage. This damage can require acid stimulation to regain production. The use of chemical methods to keep these particles in place prior to production can result in significant savings.

Discussions will include sand control completion design considerations when fine particles are present. The use of chemical additives to prevent migration of fine particles and limit near wellbore damage both pre and post completion will also be presented.

1545–1715 **Session 4: Efficiency and Reliability—Failure Detection-Real Time Data Transmission**

Focused talks on matters affecting sand management in viscous oil producing reservoirs. This session will focus on both downhole and surface solutions dealing with sand production from viscous oil producing reservoirs. Our discussions will include a decision matrix, current industry solutions, and future challenges.

1800–1930 **Welcome Reception**

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Thursday, September 2

0815–0830 **Session 5: Control in Horizontal and MLT Wells**

As drilling methods become increasingly improved, horizontal wells are becoming the main completion type for highly permeable, unconsolidated sands. Successful low skin completions require early completions input such as drill-in fluid types and DIF solids control, completion brine weight and wellbore cleanup. Sand control selection, gravel placement, carrier fluids, breakers, and case histories will also be discussed.

1015–1200 **Session 6: Sand Control for Injection Wells**

To keep reservoir pressures up and increase drainage efficiency, the number of injection wells in unconsolidated formations is rapidly increasing. Across the industry, numerous types of sand control completions have been tried with varying amounts of success. In this session, the state of the art in sand control for injection wells will be covered. Additionally, topics such as fractured injection verses matrix injection, gravel selection, the use of resins, well design and remedial actions in failed wells will also be considered.

1400–1530 **Session 7: Multizone Completions**

Focused talks on systems and techniques employed in completing multiple hydrocarbon producing reservoirs through one wellbore. This session will focus on:

- The systems used to reduce number of trips in the well
- Criteria by which we define a multizone completion
- Challenges faced in completing a multizone completion
- Case histories & lessons learned

1545–1715 **Session 8: Sand Control Considerations in Heterogeneous and Highly Non-Uniform Sands**

What is the best method for screen and gravel selection? Have we learned anything new? What happens if I don't get my screen covered with gravel? To answer these questions, this session will present recent work in sand retention testing and compare the results to early section criteria such as Saucier and Coberly equations.

In these types of formations, the need and history of intensive quality control for sand control hardware will also be focused upon.

Friday, September 3

0815– 0830 Opening Comments

0830–1000 Session 9: Compaction and Subsidence

This session will focus on four areas:

- The prediction of compaction and subsidence and simulation
- The measurement of compaction and subsidence
- Effect of compaction on productivity
- Operational aspects

Focused talks on matters contributing to compaction of hydrocarbon producing reservoirs and the corresponding subsidence that occurs. This session will take a look at current solutions to combat this problem.

1015–1215 Closing Session and Remarks

Summary: Sessions 1–9 Wrap Up and Lessons Learned

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1–3 December 2010	Latin American and Caribbean Petroleum Engineering Conference (LACPEC) <i>Lima, Peru</i>
20–23 March 2011	Converting CO₂ From Waste Into an Asset (CCS) <i>Buzios, Brazil</i>
14–17 June 2011	Brasil Offshore Exhibition Conference <i>Macaé, Brazil</i>

Workshop guidelines

FORMAT

Two and a half days of informal sessions, with a number of short presentations and breakout discussions per session, and an evening welcome reception.

ATTENDANCE

70-80 delegates from relevant disciplines with proven experience and/or knowledge of the subject areas being covered.

CONTINUING EDUCATION UNITS

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

SCRIBE'S REPORT

The steering committee will appoint a scribe to make a full report of the workshop, summarising all presentations and discussion. This report will be circulated to all attendees. The copyright of the scribe's report will belong to SPE.

ATTENDANCE CERTIFICATE

All attendees will receive a certificate from SPE attesting to their participation.

COMMERCIALISM

To remain consistent with workshop objectives and SPE guidelines, excessive commercialism in presentations will not be permitted. Company logos should be limited to indicate the affiliation of the presenter(s).

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