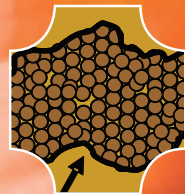
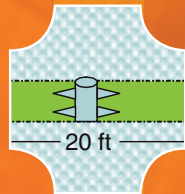


Conference Program

SPE International
Symposium and Exhibition on

FORMATION DAMAGE CONTROL

15–17 February 2012
Lafayette, Louisiana, USA
Lafayette Hilton
www.spe.org/events/fd



Continuing Education

13–14 February

Technical Sessions

15–16 February

Open Forum

17 February



Society of Petroleum Engineers

Welcome from the Chairperson



The 2012 SPE International Symposium and Exhibition on Formation Damage Control Organizing Committee and the SPE Evangeline Section welcome you to Lafayette.

This is the largest and most diverse symposium representing the latest technologies in preventing, diagnosing, and remediating formation damage.

This year's program upholds the symposium's reputation as the oil and gas industry's foremost event devoted to formation damage, production, and completion technologies.

The technical sessions are designed to bridge the tasks expected of reservoir, drilling, production, and geological personnel. Therefore, it is not surprising that this symposium and exhibition has emerged from the small regional event of earlier years to the major international event of today.

The evening social functions, filled with Lafayette's southern hospitality and world-renowned cuisine, will add to a memorable stay. There are local events and attractions before and after the symposium where you can enjoy the mild winter climate of south Louisiana.

At this symposium, you will experience how the synergy of completion, reservoir engineering, formation evaluation, drilling, and production will affect the bottom line of your company operations.

A handwritten signature in dark ink, appearing to read 'A. Ghalambor'. The signature is fluid and cursive.

Ali Ghalambor
General Chairperson

General Committee



**General and Program
Chairperson**
Ali Ghalambor, Oil
Center Research
International



**Arrangements/
Social**
Gregory Stutes,
Completion
Specialists



Exhibits
Glynn Williams,
Marathon Oil



Finance
Marty Usie, Baker
Hughes



Housing
Steve Smith,
Halliburton



**Mechanical
Arrangements**
Ted Russell,
Consultant



Publicity/Marketing
Mike Burger,
Chevron



Registration
Steve St. Amand,
Century Exploration



Registration
Susan Fowler,
Schlumberger



Short Courses
Toddy Guidry, Core
Laboratories

Program Committee

Ali Ghalambor, Chairperson
Oil Center Research International

Syed Ali
Schlumberger

Mahmoud Asadi
Core Laboratories

Pavel Bedrikovetsky
University of Adelaide

Harold Brannon
Baker Hughes

Alberto Casero
Eni Petroleum

Michael Economides
University of Houston

Jean-Noel Furgier
Total

Alfred Jennings
Enhanced Well Stimulation

Leonard Kalfayan
Hess Corporation

Eddy Martch
Shell International E&P

Carl Montgomery
NSI Technology

Dave Norman
Chevron ETC

Mehmet Parlar
Schlumberger

Allan Twynam
BP

Class Van Der Zwaag
Statoil

Sponsors (as of 23 January 2012)

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TOTAL

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Schedule of Events (as of 23 January 2012)

Sunday, 12 February

1700–1900 Advanced Registration Hilton Mezzanine Level (4th floor)

Monday, 13 February

0700–0800 Short Course Registration Hilton Mezzanine Level (4th floor)

0800–1700 Short Courses Salon A, B, C, E and F, Ashland, Oak Alley, Oaklawn, and Rosedown

Tuesday, 14 February

0700–0800 Short Course Registration Hilton Mezzanine Level (4th floor)

0800–1700 Short Courses Salon A, B, C, E and F, Ashland, Oak Alley, Oaklawn, and Rosedown

1600–1900 Registration Hilton Mezzanine Level (4th floor)

1830–2030 Cajun Icebreaker Reception Salon A, B, D and E

Wednesday, 15 February

0700–0800 Author's Breakfast Salon D

0800–1700 Registration Hilton Mezzanine Level (4th floor)

0800–1700 Exhibits Hilton Mezzanine Level (4th floor)

0900–1200 Technical Sessions Salon A and B and Ashland

1200–1400 Welcoming Luncheon Salon D and E

1400–1700 Technical Sessions Salon A and B and Ashland

1600–1830 Poster Session Oaklawn and Rosedown

1830–2030 Welcoming Reception River Oaks Event Center (off site)

Thursday, 16 February

0700–0800 Author's Breakfast Salon D

0800–1700 Registration Hilton Mezzanine Level (4th floor)

0800–1700 Exhibits Hilton Mezzanine Level (4th floor)

0830–1130 Technical Sessions Salon A and B and Ashland

1130–1330 Closing Luncheon Salon D and E

1030–1400 Poster Session Oaklawn & Rosedown

1330–1630 Technical Sessions Salon A and B and Ashland

1830–2200 Social Dine and Dance Randol's Restaurant and Cajun Dance Spot (off site)

Friday, 17 February

0830–1130 Open Forum Salon D

1130–1400 Delta Screens On-Site Product Exhibit and Lunch Hilton Hotel parking lot (see page 7 for details)

General Information

On-Site Registration

Attendees may register on-site at the registration area on the Mezzanine Level (4th floor) of the Lafayette Hilton and Towers. See schedule of events for registration hours.

Advance registration attendees may pick up their badges on-site at the registration area. Please be prepared to show photo ID (passport or driver's license) to pick up your conference badge

Conference Proceedings

One copy of the Proceedings CD is included in the registration fee. Additional copies of the CD can be ordered using the on-site registration form. On-site availability of Proceedings CDs may be limited.

Copyright Information

All SPE sessions are protected by US copyright laws. Photography and video/audio recording of any kind are strictly prohibited in the sessions and throughout the exhibition area.

Short Courses

Separate ticket purchase required.

Short course continental breakfast and lunch sponsored by



Monday, 13 February

0800-1700

1-Day Short Courses

Coiled Tubing and its Applications

Instructor: Ed Smalley

Multiphase Pumping: Fundamentals to Field Applications

Instructor: Hisham Saadawi

Completion Fluids: Technology and Applications

Instructor: Bill Foxenberg

Perforating for Well Performance

Instructor: Mark Brinsden

Tuesday, 14 February

0800-1700

1-Day Short Courses

Introduction to Distributed Temperature Sensing

Instructor: Jim Smolen

Introduction to Underbalanced Drilling

Instructor: Deepak Gala

Sand Control Using FracPac Completion Technology

Instructor: Dave Norman

Overview of Well Stimulation

Instructor: Alfred R. Jennings, Jr.

Monday and Tuesday,

13-14 February

0800-1700

2-Day Short Courses

Intelligent Well Technology

Instructor: Michael Konopczynski

Understanding Inorganic Scaling: Mechanisms, Control, and Management

Instructor: Gordon Graham

Formation Damage Prevention

Instructor: Michael Byrne

Injectivity and PWRI: Laboratory Studies, Modeling and Well Behavior Prediction

Instructors: P. Bedrikovetsky and P. Zitha

Production Systems or Nodal Analysis for Well Design and Optimization

Instructor: Hemanta Mukherjee

Special Events

Tuesday, 14 February 1830–2030

Cajun Icebreaker

Sponsored by **HALLIBURTON**

Enjoy an evening with friends, hors d'oeuvres, and cocktails at the Lafayette Hilton.

**Wednesday–Thursday,
15–16 February** 0700–0800

Author's Breakfast

Sponsored by **BAKER
HUGHES**

Wednesday, 15 February 1200–1400

Welcoming Luncheon

Sponsored by 

Speaker: Sam Whitney, Technical Services Manager, Shell

“Industry, Technology, and Completions”

In this presentation, Whitney will highlight the industry's pressing technological challenges and needs. The petroleum industry activities in new frontiers and unconventional areas demand new approaches to completions.



Sam Whitney is the technical services manager for Shell in the Americas. He assumed this position in December 2009 and has responsibility for technical assurance and reserves reporting. He also manages

technology and early maturation teams for onshore development.

Prior to serving in his current role, Whitney was the unconventional oil chief petroleum engineer. He served in the technology organization as the global integrated reservoir modeling manager, and prior to that, in Brazil as the asset manager for the Shell Operated Ventures.

Whitney has been with Shell for more than 20 years supporting E&P projects around the world. His postings include positions in New Orleans, Houston, Holland, and Brazil.

Wednesday, 15 February 1600–1830
Thursday, 16 February 1030–1400

Poster Sessions

Refreshments sponsored by 

Sessions are held in the Oaklawn & Rosedown rooms. Network with colleagues and talk with authors while enjoying beer and peanuts (Wednesday poster session only).

Wednesday, 15 February 1830–2030

Welcoming Reception

Sponsored by 

Laissez Les Bon Temps Rouler! Come “pass a good time” with an evening crawfish boil at Lafayette's River Oaks Event Center. Enjoy some of the best Cajun food in the world, friendly folks, and a great time. You won't be disappointed! Shuttle bus transportation will be provided to/from the Hilton.

Thursday, 16 February 1130–1330

Closing Luncheon

Sponsored by  **Schlumberger**

Speaker: Jeff Spath, Vice President Industry and University Relations, Schlumberger

“Technology Development and Innovation in Upstream E&P”

This presentation will describe some of the trends in research and development in the upstream E&P sector. New technologies as a result of these trends will be described, touching on exploration, characterization, and drilling.



Jeff Spath is vice president of Industry and University Relations for Schlumberger Limited, a position he assumed in March 2010. In this position, he coordinates global account management, Schlumberger's

university relations and executive-level client relationships including joint R&D projects. Prior to this position, he served as president of the Reservoir Management Group.

Spath joined Schlumberger as a field engineer in 1984 and has held positions in reservoir engineering, research, and management.

Active in the SPE, he has served as technical director for Management and Information on the SPE Board of Directors, as SPE Distinguished Lecturer on production enhancement, and has authored many SPE publications. Spath has been awarded 14 US and European patents in the subjects of production and reservoir engineering.

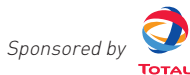
He holds BSc and MSc degrees in petroleum engineering from Texas A&M University and a PhD in reservoir engineering from the Mining University of Leoben, Austria.

Special Events

Thursday, 16 February

1830-2200

Social Dine and Dance



Come join us at Randol's Restaurant and Cajun Dance Spot for Cajun food, music, and dancing. Attendance is limited to the first 50 reservations. Shuttle bus transportation will be provided to/from the Hilton.

Friday, 17 February

0830-1130

Open Forum

So, You Think You Know How to Select Your Screen for Sand Control?

Join this lively and interactive forum to debate the controversial topic of screen selection for sand control. With the popularity of openhole horizontal completions in sanding environments, particularly in deepwater, completion technique selection (standalone or expandable screens, or gravel pack) has been a topic of great interest to our industry.

Although some guidelines have been proposed in the literature by various authors, many of these guidelines are outdated due to technological advancements as well as new understandings over the last several years.

Screen selection is often based on some sort of laboratory testing for sand retention, although no standardized testing procedures are available, and depending on how the testing is done and how the results are interpreted, the same two screens tested with the same sand can result in opposite recommendations by different engineers. Furthermore, what is an appropriate collected sample(s) in order to decide the proper laboratory testing and eventually the screen type?

This session will raise these and many other related issues through operator and service company representatives' presentations summarizing the current methodologies in sand retention testing. Their presentations will stimulate discussion and identify the gaps in our understanding. These efforts will hopefully plant the seeds towards a consensus and standardization for sand retention testing based on scientific grounds, as well as provide a stepping

stone towards the important subject of selecting the most effective technique for openhole sand control completions.

Moderator: Mehmet Parlor, Schlumberger

Discussion Leaders:

Andy Tallin, Shell
David Underdown, Chevron
Jean-Noel Furgier, Total
Michael T. Hecker, ExxonMobil
Oddbjørn Larsen, Statoil
Richard Hodge, ConocoPhillips

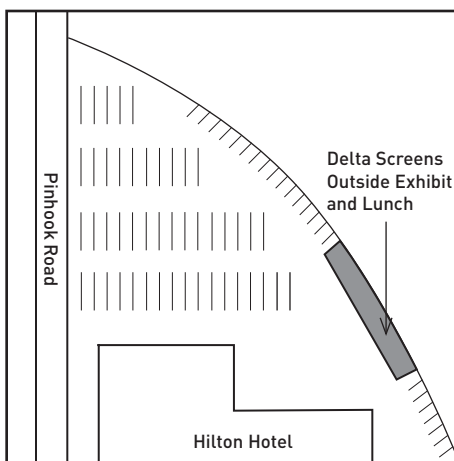
Friday, 17 February

1130-1400

Delta Screens On-Site Product Exhibit and Fried Catfish Lunch

Sponsored by 

Delta Screens will have a display of their new sand control screen product lines on-site at the Lafayette Hilton. This display will be following the Friday Forum. A fried catfish lunch will be served. Below is a diagram of the outdoor display and lunch location in the Hilton Hotel parking lot.



Wednesday, 15 February 0900–1200

**Sand Control I
Salon B**

Session Chairpersons

Dave Norman, Chevron
Alison Foo, Halliburton

This session will cover sand consolidation, horizontal well cleanup, and frac-pack experiences as well as experimental work on soft rock fracturing.

0900 151002

Foaming Aqueous-Based Curable Treatment Fluids Enhance Placement and Consolidation Performance • P.D. Nguyen, R.D. Rickman, Halliburton

0930 151488

Sand Consolidation in the Mahakam Delta: 3 Years Later • V. Chaloupka, R. Descapria, A. Mahardhini, D. Coulon, Total; Q. Tran, M. Haekal, D.C. Santoso, A. Amar, A. Nusyirwan, Halliburton

1000 150999

Improving Well Productivity/Injectivity on Deepwater Offshore Horizontal Drains
C.A. Menezes, L. Benchimol, M.J. Mcewan, A. Ohwo, V. Poinset, G. Sutherland, Total

1030 151870

Systematic Approach Used to Optimize Frac-Pack Completions in Multilayer and Low Stress Contrast Environment Encountered in the Usan Field • M. Prada, Chevron; J. Hernandez, R. Bouget, Total; S.D. Green, Schlumberger

1100 151827

Experimental Study of Hydraulic Fracturing in Unconsolidated Materials • L.N. Germanovich, R.S. Hurt, Georgia Tech; J.A. Ayoub, E. Siebrits, Schlumberger; W.D. Norman, Chevron; I. Ispas, BP; C.T. Montgomery, NSI

1130 150529

Investigation of Sand Production Onset: A New Approach Based on Petrophysical Logs
V.A. Tabrizy, Y. Mirzaahmadian, University of Stavanger

Wednesday, 15 February 0900–1200

**Damage in Tight Sands and Shales
Salon A**

Session Chairpersons

Michael Economides, University of Houston
Salvatore Luppina, Eni

The effect of formation damage in tight sands and shale is often underestimated because of the assumptions that low rock permeability prevents deep invasion of damaging fluids and

that large fracture conductivity is achievable with stimulation treatments. Nevertheless, it is because of such low permeability scenario and/or largely over estimated fracture conductivity that formation damage has to be carefully addressed in this kind of reservoir. This session will provide new perspectives on how to prevent and evaluate the extent of formation damage, presenting field experiences and lab testing studies.

0900 151645

Low Extrusion Pressure Polymer Gel for Water Shutoff in Narrow Aperture Fractures in Tight and Shale Gas and Oil Reservoirs • K. Gakhar, R.H. Lane, Texas A&M University

0925 151729

Measuring Capillary Pressure Tells More Than Pretty Pictures • M. Pagels, Schlumberger; J.J. Hinkel, Hinkel & Associates; D.M. Willberg, Schlumberger

0950 150104

Simulation of Gel Filter Cake Formation, Gel Cleanup, and Post-Frac Well Performance in Hydraulically Fractured Gas Wells
S. Charoenwongsa, H. Kazemi, P. Fakcharoenphol, J.L. Miskimins, Colorado School of Mines

1015 151889

Novel Method To Characterize Formation Damage Caused by Polymers • J.E. Maxey, R. Van Zanten, Halliburton

1040 151576

A New Approach in Permeability and Hydraulic Flow Unit Determination • M. Izadi, Consultant; A. Ghalambor, Oil Center Research International

1105 151832

Moving Beyond the Capillary Suction Time Test
M. Pagels, Schlumberger; J.J. Hinkel, Hinkel & Associates; D.M. Willberg, Schlumberger

1130 151841

Effective Kaolinite Damage Control Under Unfavorable Chemical Environment: Field Case
A. Restrepo, Equion Energia; M. Lastre, A. Milne, Schlumberger; S.J. Penaloza, E. Castro, Equion Energia

Wednesday, 15 February 0900–1200

**Water Control
Ashland Room**

Session Chairpersons

Mahmoud Asadi, ProTechnics
Pacelli Zitha, Delft University of Technology

Water production is economically challenging. This session covers the related problems and remedies.

0900 151760
Coreflooding Experiments on the Combination of Water Shutoff and Acid Treatments in Carbonate Formations • M.S. Al-Anazi, S.X. Caliskan, I.S. Al-Yami, Saudi Aramco

0925 149651
Innovative Coiled Tubing Water Shutoff Techniques in Horizontal Wells • A. Burov, W. Kharrat, N. Hussein, Schlumberger

0950 147765
Advanced Chemical Water-Shutoff Treatments in Multilayer Gas Reservoirs: A Case Study From Peciko Field, East Kalimantan, Indonesia M. Samvelova, Halliburton; A. Mahardhini, D.H. Kusuma, Total E&P; M. Haekal, T.A. Kristanto, Halliburton

1015 151646
Waterless Cement Slurry Controls Water Production in Southern Mexico Naturally Fractured Oil Wells • A. Sourget, A. Milne, L. Diaz, E.G. Lian, H. Larios, Schlumberger; P. Flores, M. Macip, Pemex

1040 151836
A Solids-Free Permeability Modifier for Application in Producing and Injection Wells M.J. Laastre Buelvas, A. Milne, Schlumberger

1105 151683
New and Effective Filter Cake Removal Optimizes Water Injectivity • E. Davidson, L. Mota, N. Mosley, G. Chimara, Halliburton; A. Morrison, I. Archibald, Chevron

1130 151699
Delayed Crosslink Polymer Flowing Gel System for Water Shutoff in Conventional and Unconventional Oil and Gas Reservoirs S. Jayakumar, R.H. Lane, Texas A&M University

Wednesday, 15 February 1400–1700
Well Stimulation
Salon B

Session Chairpersons
 Syed Ali, Schlumberger
 Alberto Casero, BP

Papers in this session explore HF/formic acid stimulation, numerical simulation of acidizing process, high temperature corrosion inhibitors, emulsified acid, nanofluid, asphaltene removal, and eco-friendly demulsifier.

1400 150899
Acidizing Sandstone Reservoir Using HF and Formic Acid • F. Yang, H.A. Nasr-El-Din, Texas A&M University; B. Al-Harbi, Saudi Aramco

1430 151823
Numerical Simulation of the Acidizing Process and PVBT Extraction Methodology Including Porosity/Permeability and Mineralogy Heterogeneity • T.J.L. de Oliveira, Petrobras; A.R. Melo, J.A.A. Oliveira, Engineering Simulation Scientific Software; A.Z.I. Pereira, Petrobras

1500 151061
A New Emulsified Acid To Stimulate Deep Wells in Carbonate Reservoirs • M.A. Sayed, H.A. Nasr-El-Din, Texas A&M University; J. Zhou, S. Holt, AkzoNobel; H. Al-Malki, Qatar Petroleum

1530 151845
The Impact of Complex Nanofluid Composition on Enhancing Regained Permeability and Fluid Flowback From Tight Gas Formations and Propped Fractures • L.M. Champagne, H. Zhou, A.S. Zelenev, N. Lett, CESI Chemical

1600 151813
Umbilical Deployed Stimulations for Asphaltene Related Damage in Offshore Oil Fields T. Peruzzi, T. Coulon, J. Fauria, D. Frey, H. Marechal, R. Sawyer, R. Sloan, Murphy Exploration & Production

1630 151852
Development of More Environmentally Friendly Demulsifiers • H. Zhou, K.I. Dismuke, N. Lett, G.S. Penny, CESI Chemical

Wednesday, 15 February 1400–1700
Formation Damage I
Salon A

Session Chairpersons
 Pavel Bedrikovetsky, University of Adelaide
 Claas Van Der Zwaag, Statoil

This session will cover impairment due to fines migration, sulphate scaling, micro organisms, and induced rock stress. The papers present the formation damage prevention, removal, and mitigation.

1400 151818
Assessing Formation Damage From Migratory Clays in Moderate Permeability Formations P.R. Howard, Schlumberger; J.J. Hinkel & Associates; N.C. Moniaga, Schlumberger

1430 151611
Taking Advantage of Fines Migration Formation Damage for Enhanced Gas Recovery P.T. Nguyen, A. Zeinijahromi, P.G. Bedrikovetsky, University of Adelaide

1500 151807
The Extinction of Skin • M.T. Byrne, C.A. Mcphee, Senergy

1530 150953

Detrimental Effect of Temperature on Fines Migration in Sandstone and Shale Formations
D.A. Musharova, I.M. Mohamed,
H.A. Nasr-El-Din, Texas A&M University

1600 151636

A New Outlook on the Ideal Packing Theory for Bridging Solids • K. Chellappah, M.S. Aston, BP

1630 151143

Mitigation of Calcium Sulfate Scale Formation When Seawater Is Used To Prepare HCl-Based Acids • J. He, I.M. Mohamed, H.A. Nasr-El-Din, Texas A&M University

Wednesday, 15 February 1400–1700
Carbonate Acidizing and Fracturing
Ashland Room

Session Chairpersons

Hisham Nasr-El-Din, Texas A&M University
Jakob Monberg, Maersk Oil

With the proliferation of developments offshore, long horizontal and complex well completions, and more extreme temperature and pressure conditions, the challenges of maximizing success in carbonate stimulation are greater today than ever before. This session presents new insights in carbonate acid fracturing, challenging environments facing operational limitations, and case examples of custom and nonconventional stimulation approaches in different completion types.

1400 149997

Cost-Effective Acid Stimulation of Carbonates Using Seawater-Based Systems Without Calcium Sulfate Precipitation • S.L. Berry, J.L. Boles, K.L. Smith, Baker Hughes

1430 151740

Pushing the Limits: HT Carbonate Acidizing
O.E. Jimenez Bueno, G.R. Ramirez, Pemex;
M.A. Quevedo Z., J.T. Resendiz Torres, F. Tellez Cisneros, Schlumberger

1500 151564

First Successful Rigless Acid Tunneling Job in Maudud Carbonate Reservoir in Raudhatain Field, North Kuwait • F. Ashkanani, S.S. Sharma, M.F. Al-Ajmi, A. El-Daoushy, I. Saleh, Kuwait Oil

1530 151070

Effective Matrix Stimulation of High-Temperature Carbonate Formations in South Sumatra Through the Combination of Emulsified and Viscoelastic Self-Diverting Acids • M. Madyanova, R. Hezmela, P.D. Artola, C.R. Guimaraes, Schlumberger;
B. Iriyanto, Talisman Jambi Merang

1600 151797

Used Approaches for Carbonates Acidizing Offshore Brazil • A.Z.I. Pereira, M.G. F. da Silva, L.C.A. da Paixao, T.J.L. de Oliveira, P.D. Fernandes, Petrobras

1630 152179

Acid Fracturing: New Insights on Acid Etching Patterns From Experimental Investigation
L.F. Neumann, Petrobras; J.L.A. de Oliveira e Sousa, E.M. Brandao, Universidade Estadual de Campinas; T.J.L. Oliveria, Petrobras

Wednesday, 15 February 1600–1830
Poster I
Oaklawn & Rosedown Rooms

Session Chairpersons

Ali Ghalambor, Oil Center Research International
Leonard Kalfayan, Hess

Poster sessions offer an interactive environment to promote valuable discussions.

151751

Investigation of the Mitigation of Lost Circulation in Oil-Based Drilling Fluids Using Additives
H. Guo, J. Voncken, Delft University of Technology;
T. Opstal, R. Dams, 3M Oil and Gas; P.L. Zitha, Delft University of Technology

150122

Statistical Analysis of Significant Factors Affecting Perforation Flow at Well Scale • B. Li, D. Sun, R. Satti, Baker Hughes

151641

Compatibility and Phase Behavior Studies Between Corrosion Inhibitor and Surfactants-Based Acids
L. Li, AkzoNobel; H.A. Nasr-El-Din, Texas A&M University; J. Zhou, S.P. Holt, AkzoNobel

149883

Innovation and Successful Application for Calcium Sulfate Scale Removal in Gemsa Oil Field: A Field Study • E. Hamdy, M. Fahmy, A. Faramawy, Gempetco

151142

Formation Damage Due to CO₂ Sequestration in Deep Saline Carbonate Aquifers • I.M. Mohamed, H.A. Nasr-El-Din, Texas A&M University

Thursday, 16 February **0830-1130**
Sand Control II
Salon B

Session Chairpersons

Mehmet Parlar, Schlumberger
Mike Hecker, ExxonMobil

This session will cover screen selection methodologies from laboratory testing and modeling standpoints, as well as onset of sand production and gravel pack modeling.

0830 **151803**

On the Hydraulics of Reverse Flow Path Gravel Pack Operations • B.N. Rao, BTechSoft;

A.M. Amin, Bhavya Engineering; R. Van Petegem, J.P. Broussard, Weatherford

0900 **151865**

Fundamentals of Gravel Pack Performance With Mesh Screens • W.E. Martch, A.J. Hudson,

W. Bode, Shell; C.C. Fischer, V.G. Constien, Constien & Associates

0930 **151817**

The Impact of Annular Flows on High

Rate Completions • R.M. Greene, T. Moen, Schlumberger

1000 **151637**

Modeling of Square Mesh Screens in Slurry Test Conditions for Standalone Screen Applications

R.A. Chanpura, Schlumberger; S. Mondal, The University of Texas at Austin; J.S. Andrews, A.M. Mathisen, Statoil; J.A. Ayoub, M. Parlar, Schlumberger; M.M. Sharma, The University of Texas at Austin

1030 **151346**

New Sand Retention Test Setup Exhibits No Plugging Tendencies With Various Screen Types Using Nonuniform Test Sand • O.S. Larsen,

V. Fjellstad, A.M. Mathisen, J.S. Andrews, H. Joranson, Statoil; B. Aas, International Research Institute of Stavanger

1100 **151768**

An Investigation of Sand Retention Testing With a View To Developing Better Guidelines for Screen Selection • T.J. Ballard, S.P. Beare, Weatherford

Thursday, 16 February **0830-1130**
Drilling and Completions
Salon A

Session Chairpersons

Alfred Jennings, Enhanced Well Stimulation
Carl Montgomery, NSI Technologies

Drilling and completion fluids are the main source of induced formation damage. Using a

proper approach in their selection and utilization is critical in preventing excessive formation damage. The papers in this session will address this issue, presenting how the damage occurs and how it can be practically managed.

0830 **151113**

Experimental and Computational Study of Flow Characteristics in a Drilled Perforated Core

D. Sun, R. Satti, D. Ochsner, T. Sampson, B. Li, M. Gladkikh, Baker Hughes

0900 **151800**

Perforated Completion Optimization Using a New, Enhanced and Integrated Perforating Job Design Tool • L. Zhan, F.H. Doornbosch, A.J. Martin,

J.P. Harvey, B.M. Grove, Schlumberger

0930 **151754**

An Automated Software Workflow To Optimize Gulf of Mexico Lower Tertiary Wilcox Sand Reservoirs • R.G. Dusterhoft, M.A. Strobel,

M. Sztatny, Halliburton

1000 **151840**

Prediction of Injection Induced Formation Shear

H. Han, S. Khan, S.A. Ansari, N. Khosravi, Schlumberger

1030 **151856**

A CT Scan Aided Coreflood Study of the Leakoff Process in Oil-Based Drilling Fluids • A.S. Van

Overveldt, H. Guo, G.L. de Blok, Delft University of Technology; P. Bedrikovetsky, University of Adelaide; P.L. Zitha, Delft University of Technology

1100 **151824**

Customizing Drill-In Fluid for Peregrino Project in Brazil: Laboratory Development and Field Experience • L. Han, D. Clinch, Halliburton;

C. Van Der Zwaag, E. Galletti, Statoil; F. Fornasier, F. Estevez, D.N. McMillan, Halliburton; J. Green, I. Patey, Corex

Thursday, 16 February **0830-1130**
Horizontal and Multilateral Wells
Ashland Room

Session Chairpersons

Michael Byrne, Senergy
Jean-Noel Furgier, Total

Economical development of complex fields is often made possible by drilling horizontal and multilateral wells. Nevertheless those wells require specific attention when it comes to productivity optimization. This session will discuss challenges and solutions dedicated to horizontal wells, and some field cases will be shown.

0830 151805

Debris Management in High-Angle, Extended-Reach, Large-Diameter, Cased Holes During Completions Operations • A. Ghalambor, Oil Center Research International; F. Haeri, Consultant; W.D. Norman, Chevron

0900 151837

A Specially Designed Organophilic Chloride-Free Reservoir Drill-In Fluid Meets the Challenges of the First Horizontal Well in Mozambique
C. Ezeigbo, M. Luyster, R. Ravitz, A. Pereira, C.M. Nguyen, M-I SWACO

0930 151073

A Systematic Study of Different Delayed Systems for Mudcake Removal in High-Temperature Horizontal and Multilateral Wells • P.P. Najeeb, M.H. Al-Khalidi, M. Faifi, Saudi Aramco

1000 151560

Wormhole Propagation in Tar During Matrix Acidizing of Carbonate Formations
S.H. Almutairi, M.A. Al-Obied, I.S. Al-Yami, A.M. Shebatalhamd, D.A. Al-Shehri, Saudi Aramco

1030 149902

Transient Pressure Analysis of a Horizontal Well With Multiple Inclined Hydraulic Fractures Using Type-Curve Matching • S.J. Al Rbeawi, D. Tiab, University of Oklahoma

1100 151759

Analysis of Parameters Affecting Critical Flow Rate in a Horizontal Well: Case Study in Ahwaz Oil Field • S. Goodarzian, Colorado School of Mines; A. Ghalambor, Oil Center Research International; M. Izadi, Colorado School of Mines

Thursday, 16 February 1330–1630
Well Stimulation II
Salon B

Session Chairpersons
Harold Brannon, Baker Hughes
Lewis Ledlow, ConocoPhillips

Papers within the session explore fracturing fluids and properties, new proppant applications, treating pressure interpretation, and a model for production optimization.

1330 151715

Fracturing Fluid With Low-Polymer Loading Using a New Set of Boron Crosslinkers: Laboratory and Field Studies • N.J. Williams, P.A. Kelly, K.G. Berard, E.L. Dore, N.L. Emery, C.F. Williams, S. Mukhopadhyay, Superior Energy Services

1400 151220

Observation of Gel Filter Cake Recovery by Dissolution in Flowback Fluids • R.D. Gdanski, Shell; J.E. Bryant, Halliburton

1430 149994

Expanding the Hydraulic Fracturing Options on Reservoirs With Water Zones in Western Siberia
A. Mendez, Y. Mazhirin, V. Astafiev, Weatherford; A. Glebovich, P. Bortey, Lukoil

1500 150263

Real-Time Advanced Warning of Screenouts With the Inverse Slope Method • L.V. Massaras, D.V. Massaras, Pangea Technology

1530 149833

Hydraulic Fracture Production Optimization With a Pseudo-3D Model in Multilayered Lithology
M. Yang, Texas A&M University

1600 151781

Aluminum and Iron Precipitation During Sandstone Acidizing Using Organic-HF Acids
B.G. Al-Harbi, M.N. Dahlan, M.H. Khaldi, Saudi Aramco

Thursday, 16 February 1330–1630
Formation Damage II
Salon A

Session Chairpersons
Pavel Bedrikovetsky, University of Adelaide
Allan Twynam, BP

This session will cover impairment due to rock and proppant pack compression and stress, drilling fluids, micro organisms, and induced rock stress. The papers present the formation damage prevention, removal, and mitigation.

1330 151647

Experiment and Simulation Study of Proppant Pack Compression • X. Ye, P. Tonmukayakul, J.D. Weaver, Halliburton; J. Morris, City College of New York

1400 151846

Stressed Rock Penetration Depth Correlation
J.P. Harvey, B.M. Grove, L. Zhan, Schlumberger

1430 151678

Dynamic Filtration: Seepage Losses on Tyrihans
C.H. Van Der Zwaag, T. Omland, T. Vandbakk, Statoil

1500 149962

Near Wellbore Streamline Modeling: Its Novelty, Application, and Potential Use • J.H. Skinner, T.E. Johansen, Memorial University

1530 150669

Long-Term Proppant Performance • N. Raysoni, J.D. Weaver, Halliburton

1600 151838
Vitality of Formation Damage Causing Microorganisms in Brines • F. De Benedictis, K.I. Schultz, C.D. Armstrong, P.H. Javora, Q. Qu, Baker Hughes

Thursday, 16 February 1330-1630
New Developments and Field Experiences
Ashland Room

Session Chairpersons
 Eddy Martch, Shell
 Paul McElfresh, Frac Tech Services

This session provides insight into novel solutions of issues related to wellbore displacements, scale inhibition techniques, removal of formation damage with nanotechnology, and mitigation of condensate banking. It will also cover improvement of waterflood sweep efficiency, evaluation of stimulation diversion via fiber optic technology, and the completion of ultrahigh-rate gas wells.

1330 151604
Double-Emulsion Spacer Design for Highly Efficient Invert Emulsion Displacement
 S. Lu, W.E. Foxenberger, Schlumberger

1400 151863
"Sqimulation": Simultaneous Well Stimulation and Scale Squeeze Treatments in Deep Water, West Africa • D.E. Patterson, M. Kendrick, W.H. Williams, Chevron; M.M. Jordan, Nalco

1430 151848
The Application of Nanoparticle Dispersions To Remove Paraffin and Polymer Filter Cake Damage • P.M. McElfresh, C. Olguin, D. Ector, FTS International

1500 151575
Inhibited Gas Stimulation To Mitigate Condensate Banking and Maximize Recovery in Cupiagua Field • C.A. Franco, R.D. Zabala, J.F. Zapata, Ecopetrol; E. Mora, BP; O.F. Botero, C.H. Candela, A.F. Castillo Mejia, Ecopetrol

1530 151770
Design, Installation, and Performance of Big Bore (9 5/8 in.) Completions: Mari-B Field, Offshore Israel • J.C. Healy, J.R. Sanford, D.F. Reeves, K.J. Dufrene, P. Haskell, Noble Energy; M.R. Luyster, M-I SWACO; V. Bariudin, State of Israel, Ministry of National Infrastructures

1600 151662
The Influence of Fluid Loss Additives in High-Temperature Reservoirs • R.B. Watson, P. Viste, J.R. Lauritzen, M-I SWACO

Thursday, 16 February 1030-1400
Poster II
Oaklawn & Rosedown Rooms

Session Chairpersons
 Ali Ghalambor, Oil Center Research International
 Leonard Kalfayan, Hess

Poster sessions offer an interactive environment to promote valuable discussions.

151861

Novel Interconnected Bonded Structure Enhances Proppant Flowback Control • A.A. Burukhin, S. Kalinin, J. Abbott, M. Bulova, Schlumberger; Y.K. Wu, M. Crandall, I. Kadoma, M. Begich, S. Papp, 3M

151779

Effect of Coreflood Test Methodology on Appropriate Simulation of Field Treatments
 G.M. Graham, S.L. Kidd, R. Stalker, R. Wright, Scaled Solutions

151815

Reaction Rate of Emulsified Acids and Dolomite
 M.A. Sayed, H.A. Nasr-El-Din, Texas A&M University

151749

A Sequential Polymer Injection Treatment Using RPM: Effects of Multilayer Adsorption of Cationic and Anionic Polymers • T. Chung, W. Bae, H. Koh, S. Oh, S. Kim, H.X. Nguyen, Sejong University

151774

Productivity Impairment of Gas Wells Due to Fines Migration • A. Zeinijahromi, University of Adelaide; A.S. Vaz, North Fluminense State University; P. Bedrikovetsky, University of Adelaide

149623

Is Formation Damage an Issue in Shale Gas Development? • Q. Wang, B. Guo, University of Louisiana at Lafayette; D. Gao, China Association for Science and Technology

Exhibitors

[as of 23 January 2012]

Baker Hughes
CESI Chemical–A Flotek Company
Constien & Associates, Inc.
COREX
Grace Instrument
Halliburton
M-I SWACO
OFI Testing Equipment, Inc.
Scaled Solutions Limited
Schlumberger
Senergy
Superior Completion Services
(a division of Superior Energy Services, Inc.)
Weatherford

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Floor Plan

LAFAYETTE HILTON AND TOWERS - MEZZANINE LEVEL (4TH FLOOR)

