IADC/SPE ASIA PACIFIC DRILLING TECHNOLOGY CONFERENCE AND EXHIBITION

Creating Value in Transforming Times

22-24 August 2016
Sands Expo & Convention Centre
Singapore

CONFERENCE PREVIEW

www.spe.org/events/apdt/2016
On behalf of the Society of Petroleum Engineers (SPE), the International Association of Drilling Contractors (IADC), and the Programme Committee, I am pleased to invite you to the eleventh biennial IADC/SPE Asia Pacific Drilling Technology Conference (APDT), scheduled 22-24 August 2016 in Singapore.

For the first time in the event’s twenty year history, APDT will be held in the strategic location of Singapore to attract the full spectrum of operators, suppliers, contractors and service providers who are instrumental in developing our region’s drilling industry.

The theme of the conference is “Creating Value in Transforming Times”. Since 2014, the industry has evolved significantly with new challenges requiring innovative approaches in applying technology to achieve cost and operational efficiencies, sustainability and meet stakeholder expectations. This new imperative calls for transformation across every aspect of how the industry engages externally and operates internally. Given the changes and commercial realities, a fit for purpose set of tools, systems, models and capabilities can further realise cost efficiencies throughout the value and supply chains. This conference will address the approaches, challenges, successes and the future direction for new growth opportunities in this dynamic environment.

To address the theme, the conference Technical Programme Committee has drawn together a diverse and comprehensive technical programme, featuring presentations of 120 papers in technical and ePoster sessions. Industry leaders will also provide their insight on major issues during the Opening, Executive Plenary and Panel Sessions.

Alongside the conference, a technical exhibition will showcase the latest industry advancements, as well as provide a vibrant platform for knowledge transfer and networking to deliver an efficient platform for industry professionals to share experiences, make new connections, and to conduct business all under one roof.

We anticipate a highly engaging 2016 APDT and look forward to you attending this professionally rewarding and enjoyable event in Singapore.

Sincerely,

Raphael Siri
2016 APDT Conference Chairman
CEO, SapuraKencana Drilling Pte. Ltd.
Sponsoring Organisations

The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose members are engaged in energy resources development and production. SPE serves more than 143,000 members in 147 countries worldwide. SPE is a key resource for technical knowledge related to the oil and gas exploration and production industry and provides services through its publications, events, training courses, and online resources at www.spe.org.

D. Nathan Meehan, 2016 Society of Petroleum Engineers (SPE) President, is Senior Executive Adviser at Baker Hughes, advising executive management on reservoir and geoscience issues. Previously, he was President of CMG Petroleum Consulting, Vice President of Engineering for Occidental Oil & Gas; and General Manager Exploration and Production at Union Pacific Resources.

Meehan earned a BSc in Physics from the Georgia Institute of Technology, an MSc in Petroleum Engineering from the University of Oklahoma, and a PhD degree in Petroleum Engineering from Stanford University. He previously served as Chairman of the CMG Reservoir Simulation Foundation and as Director of the Computer Modelling Group, Vanyoganef Oil Company, Pinnacle Technologies, SPE Board of Directors, and JOA Oil & Gas BV. He served on advisory boards of the University of Texas and the University of Houston and currently serves on the EME industry relations board at Pennsylvania State, the Interstate Oil and Gas Compact Commission and the Advisory Board of World Oil. He is the recipient of the Lester C. Uren Award for Distinguished Achievement in Petroleum Engineering and the Degolyer Distinguished Service Medal and served as a Distinguished Lecturer. He is a licensed Professional Engineer in four states and has published scores of papers.

Since 1940, the International Association of Drilling Contractors (IADC) has exclusively represented the worldwide oil and gas drilling industry. IADC’s mission is to catalyze improved performance for the drilling industry by enhancing operational integrity and championing better regulation to facilitate safer, cleaner and more efficient drilling operations worldwide. For more information, visit the IADC website at www.iadc.org.

Thomas Burke was appointed Chief Executive Officer and elected a Director of Rowan Companies in April 2014. He served as Chief Operating Officer beginning in July 2011 and was appointed President in March 2013. Dr. Burke first joined the company in December 2009, serving as Chief Executive Officer and President of LeTourneau Technologies until the sale of LeTourneau in June 2011. From 2006 to 2009, Dr. Burke was a Division President at Complete Production Services, an oilfield services company, and from 2004 to 2006 served as its Vice President for Corporate Development. Prior to that, he worked at McKinsey & Company and Schlumberger.

Dr. Burke received a PhD in Engineering from Trinity College, the University of Oxford, a Bachelor’s in Engineering with honors from the Heriot-Watt University in Scotland, and an MBA from Harvard Business School, where he was awarded a Baker Scholarship.
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Your Trusted Global Partner

SapuraKencana Petroleum Berhad is a full-fledged upstream player and one of the world’s largest integrated oil and gas services and solutions providers. SapuraKencana Petroleum Berhad’s full spectrum of capabilities covers the entire value chain of exploration, development, production, rejuvenation, and decommissioning and abandonment. With a diverse pool of multinational talent with skill-sets and expertise in various countries, comprehensive world-class assets and project management capabilities, the Group’s global presence can be seen in over 20 countries including Malaysia, China, Australia, Brazil, the United States of America, as well as those in Western Africa, and the Middle East.
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<td>Training Course: A Proactive Approach to Ensure Well Integrity during the Construction and Operation of Wells</td>
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<td>Friday, 26 August</td>
<td>0900 hrs - 1700 hrs</td>
<td>Training Course: A Proactive Approach to Ensure Well Integrity during the Construction and Operation of Wells</td>
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Executive Plenary Session

Monday, 22 August • 0900 – 1000 hours • Melati Main Ballroom, Level 4

Speakers:

Raphael Siri, Conference Chairman, 2016 IADC/SPE Asia Pacific Drilling Technology Conference and Exhibition and CEO, SapuraKencana Drilling Pte. Ltd.

Mike Dubose, Vice President, International Development, International Association of Drilling Contractors (IADC)

Wong Kok Seng, Managing Director, Keppel Offshore & Marine (Offshore) and Keppel FELS

D. Nathan Meehan, 2016 President, Society of Petroleum Engineers (SPE) and Senior Executive Advisor, Baker Hughes

Attendance at this event will include senior management from major petroleum related companies, representatives from government ministries and departments, and technical industry professionals.

Monday, 22 August • 1030 – 1200 • Melati Main Ballroom, Level 4

Moderator:

Craig McMahon, Head of Research, Asia Pacific, Wood Mackenzie

Speakers:

Mark Langston, General Manager, Reservoir Management, Chevron Asia-Pacific E&P

Datuk Mohd Anuar Taib, Executive Vice President and CEO, Upstream, PETRONAS

Do Van Khanh, Chairman of Board of Directors, PetroVietnam Drilling & Well Services Corporation (PV Drilling)

Raphael Siri, CEO, SapuraKencana Drilling Pte. Ltd.

Rajeev Sonthalia, President of IPM - Integrated Drilling Services, Schlumberger

Since 2014, the industry has evolved significantly with new challenges requiring new approaches in applying technology to achieve cost and operational efficiencies, sustainability and stakeholder expectations. This new imperative calls for transformation across every aspect of how the industry engages externally and operates internally. Given the changes and commercial realities, a fit for purpose set of tools, systems, models and capabilities can further realise cost efficiencies throughout the value and supply chains. Addressing the conference theme, “Creating Value in Transforming Times”, this session will set the scene of the conference in addressing the approaches, challenges, successes and the future direction for new growth opportunities in this dynamic environment.
**Panel Sessions**

**PANEL SESSION 1: Can We Achieve Mutual Profitability in Transforming Times**

*Tuesday, 23 August • 1100 – 1230 hours • Melati 4102, Level 4*

**Session Chairpersons:**
Manav Kumar, President & Director, Dynamic Drilling Holdco Pte. Ltd.
Eoin Christie, Director - Strategic Planning, SapuraKencana Drilling Pte. Ltd.

**Speakers:**
Sanjeev Bordoloi, Global Director, Geomechanics, Baker Hughes
Saud Jumah Al-Foudari, Manager, Deep Drilling Group, Kuwait Oil Company
David Reid, Chief Marketing Officer, NOV
Pham Tien Dung, CEO, Petrovietnam Drilling & Well Services Corporation (PV Drilling)

In today’s transforming times, both operators and service providers are under constant pressure to be more efficient while lowering expense levels. Small improvements in performance can be of significant addition to the value of resources.

Technological innovations and innovative management techniques are very important to overcome the current environmental challenges. Use of new technologies is recipient to efficient use of resources and achieving higher performance of operating assets. Apart from the mere payoff of the associated R&D cost; key challenges, utilisation of existing and new generation rig fleet, economic viability of these high cost assets in a truncated budget environment, impact the sustainability of new technology.

The call of time is to optimise the successful collaboration the Oil & Gas Industry has seen in the past between NOC, IOC, Drilling Contractors and Service Companies.

This panel assembles experts with extensive experience and a range of diverse expertise to discuss the current transforming times, the new measures and strategies for optimising mutual profitability, and the challenges lying ahead for Oil & Gas Industry stakeholders.

**PANEL SESSION 2: Technology Development – Well Integrity and Brownfield Development**

*Tuesday, 23 August • 1600 – 1730 • Melati 4102, Level 4*

**Session Chairpersons:**
Peter Smith, Region Manager, GE Oil and Gas
Bob Kerr, Director Cased Hole Services, Scientific Drilling
Suresh Kumar, Oil & Gas Consultant

**Speakers:**
Hazli Sham Kassim, General Manager, PETRONAS
Chip Abrant, Senior Vice President of Global Operations and Sales, Scientific Drilling International
Claude Durocher, Global VP Strategic Sales, Weatherford International Ltd.
Panel Sessions

Recent oil market volatility, has added extra complexity to long term Exploration and Development decisions involving subsurface uncertainty, costs and risks. In today’s world, reducing the cost of oil production is as important as apportioning uncertainty, while finding appropriate development strategies, lifting methods and completion techniques.

Well design, equipment selection, competent personnel and operating procedures should ensure multiple barriers for safe drilling and production operation during the life of the well through primary, secondary and tertiary recovery stages. However, an alarming proportion of wells (perhaps 40%) have integrity issues and technology should lead to better well designs, problem identification, equipment reliability and operating standards.

Brownfield development for extension of field life or producing bypassed hydrocarbon or redevelopment with EOR techniques can be complex and expensive. Stranded oil and gas, Marginal field and late life field rejuvenation often needs thorough understanding of multi-disciplinary E&P skills with the capability to effectively manage discipline interfaces. Late life field development philosophy and skillsets required are different from traditional oilfield development and the industry needs to develop technology and processes to improve net oil and gas recovery.

**PANEL SESSION 3: Safety Ownership during Technology Implementation for Effective Performance**

**Wednesday, 24 August • 1100 – 1230 • Melati 4102, Level 4**

**Session Chairpersons:**

Tim Marsh, Director of Safety and Performance, SapuraKencana Drilling Pte. Ltd.
Guillaume Plessis, Director Global Marketing, NOV Grant Prideco

**Speakers:**

Greg O’Neill, Independent
Philip Williams, General Manager, OCS Group
Pasuk Eagark, Senior Vice President Well Operations Division, PTTEP
Scott Dennon, Assist & Assure Team Lead, Shell

Today, more than ever before, rigs are delivering more efficient operations through their adoption of advanced equipment and digital technologies. The industry also compliments these advancements through concentrating technical expertise, both through highly complex remote monitoring resources and also using expert centres of knowledge to provide technical advice or support when needed.

These changes are some of the new trends implemented and which are still developing in their scope and efficiencies across our industry. Of course, these advancements must be achieved without compromising safety, both personal and process, which are paramount in all drilling and completion operations. From within this world of technical and technological advancements, the question of ownership of safety both in design and the interactions they brought about, should be challenged.

Who owns it in this new environment? Is it the technology’s owner, the service company, the drilling contractor or the oil company?

How can the players work hand-in-hand towards the adoption of technologies that enhance both performance and safety and how can responsibility lines be redefined?

This panel assembles experts with extensive experience and a range of diverse expertise to discuss the progress the industry has made relative to safety design embedded within new technology and the challenges that lay ahead.
## Conference Programme Schedule

(Additions/changes made after 18 April will be reflected in the onsite programme)

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Technical Sessions

Monday, 22 August ● 1400-1530 hours
TECHNICAL SESSION 1: DRILLING BIT TECHNOLOGY
Room Melati 4101, Level 4

Session Chairpersons:
Suresh Kumar, Oil & Gas Consulting Firm
Guillaume Plessis, NOV Grant Prideco

Papers IADC/SPE
180499 Innovative Conical Diamond Element Bit Significantly Reduces Drilling Cost of Laterals
J.A. Schilling and E. Cooley, Marathon Oil Co.; M.G. Azar, A. White, S. McDonough, K.M. Koffler, J.M. Self and B. Krough, Schlumberger

180572 BHA Modelling and Application of Bi-Center Bit with Unique Vibration Dampening Tool to Improve Hole Opening Performance in Offshore HTHP Exploratory Well in Krishna Godavari Basin, India
M. Lobo, D. Sharma, C. Agarwal, M. Pathak, B. Chakraborty and C. Lang, Cairn India Ltd.

180609 New Concentric Dual Diameter Fixed Cutter Technology Bit Drills 100% Faster and Saves Operator Drilling Time Through Challenging Abrasive Sandstone in One of the Largest Reservoirs in the Middle East

180509 Experimental Study of Rotary - Percussive Drilling
N.V. Hung, PetroVietnam U.

Monday, 22 August ● 1400-1530 hours
TECHNICAL SESSION 2: COMPLETION TECHNOLOGY AND ENHANCED OIL RECOVERY
Room Melati 4102, Level 4

Session Chairpersons:
Tomaso Ceccarelli, Schlumberger IPM
Basker Murugappan, TAQA

Papers IADC/SPE
180668 Expanding the Reach of Wireline Perforating

180500 Nanofluids for Enhanced Oil Recovery Processes Case Study: Wettability Alteration Using Zirconium Oxide L.N. Nwuidee, Curtin U.

180672 A Successful ICD’s Advance Completions Modelling and Design Solution in Securing Fast-Track Development Marginal Field Recovery

180570 MTV New Installation
H.M. Arji, A.A. Shurei and A.A. Al-Khalawi, Saudi Aramco PE&D NARM; A. Syed, H. Suherdiana and H. Alsaba, Baker Hughes; A. Galimzyanov, Baker Hughes Saudi Arabia

Monday, 22 August ● 1400-1530 hours
TECHNICAL SESSION 3: WELL INTERVENTION
Room Melati 4103, Level 4

Session Chairpersons:
Bob Kerr, Scientific Drilling
Wade Rebardi, Superior Energy Services LLC

Papers IADC/SPE
180601 World First Use of Selective Perforating in Complex High-Temperature Well Intervention

180547 Successful Case Histories of an Optimised Diversion System Applied in Stimulation Treatments in a Highly Naturally Fractured Carbonate Formation
C.R. Ramirez, Halliburton Latin America; K. Campos, Halliburton, A.D. Gonzalez, Halliburton Energy Services Group

180582 Challenging Development of Relief Wells: Active Magnetic Ranging in Highly Resistive Formations
H. Wu, A.J. Gosse and P. Schiermeier, Halliburton

180600 Valve Gate Milling on E-Line Returns Well to Production Faster and Safer
A. Azmey, Welltec Middle East; I.M. Zefzafi, Saudi Aramco SAOO; W. Chehabi, Welltec Middle East; A.S. Al-Shawly, Saudi Aramco SAOO, A.A. Mulhim, Saudi Aramco

Monday, 22 August ● 1400-1730 hours
TECHNICAL SESSION 4: CEMENTING AND ZONAL ISOLATION
Room Melati 4101, Level 4

Session Chairpersons:
Arun Rajagopalan, Independent
Keith Rae, TAM Intl. Asia Pacific Pty. Ltd.
Johann Plank, Technische Universität München

Papers IADC/SPE
180630 Cementing Across 30 Varying Pressure Zones: A Case History of Overcoming Engineering Challenges
Y. Saeed, Baker Hughes

180538 Achieving Zonal Isolation Objectives in Carbon Dioxide Rich Gas Production Environment in South East Asia
T. Chikara and A.G. Salehpour, Schlumberger WTA Malaysia Sdn. Bhd.; C. Azwar, Services Techniques Schlumberger

180578 Investigating the Benefits of Rotating Liner Cementing and Impact Factors

180508 Finite Element Wellbore Stress Modelling: Effects of Fracturing, Re-Fracturing and Re-Completions on Well Integrity
A. Shadravan, ReservoirFocus; M. Tarrahi, Texas A&M U.
Technical Sessions

Monday, 22 August • 1600-1730 hours
TECHNICAL SESSION 5: DEEPWATER DRILLING AND COMPLETION
Room Melati 4102, Level 4

Session Chairpersons:
Habil Akram Rosland, Halliburton
Michael Jellisson, Independent
Koji Sakura, Tenaris

Papers IADC/SPE
180593 Using MPD Techniques to Effectively Drill Differently Pressured Layered Sand Reservoirs on Deepwater Development Wells Offshore Malaysia
R.H. Pinkstone, R.A. Doll and M. Chandra, Managed Pressure Operations; W.P. Babcock, Murphy Oil Corp.; V.F. Tilley and B. Choo, Murphy Sarawak Oil Co. Ltd.

180559 A Comprehensive Annual Pressure Buildup Mitigation Strategy By Modifying Top of Cement Placement Design in Loss Circulation Zone, Case Study: Deepwater Well X, Indonesia

180646 Mechanical Specific Energy for Drilling Optimisation in the Deep Water Brazilian Salt Environments
P. Constantino and A. Lima, Halliburton

180604 Enhanced Deepwater Conductor Jetting Design for East Malaysia

Tuesday, 23 August • 0900-1030 hours
TECHNICAL SESSION 7: INNOVATIVE TECHNOLOGIES I
Room Melati 4101, Level 4

Session Chairpersons:
Feng Gui, Baker Hughes
Habil Akram Rosland, Halliburton
Matt Regan, Kongsberg Oil & Gas Technologies

Papers IADC/SPE
180685 Advanced Drilling Simulation and Engineering Center Provide Support for Challenging Drilling Operations in the South China Sea
R. Rommetveit, eDrilling Solutions; Y.Hu and W. Gang, CNOOC; S. Heigeland, eDrilling; L. Namork, Oiltc Solutions

180580 Dare to Change: An Approach to Implement Enterprise Level of Real Time Well Solution for Collaborative Working Environment

180577 Real-Time and Wireless Monitoring of Wellhead and Conductor Fatigue
S. Gauthier, Pulse Structural Monitoring Ltd.

180568 State-of-the-Art Open Hole Tractor Enables Accurate Pressure Measurement in a Horizontal Well, Resulting in Significant Rig Time Saving
M.D. Al-Khalidy, A. AlRashidi, K. Al Failakawi and A. Dutta, Kuwait Oil Co.; O. Mansour, H. Ayyad and M. AlMahdy, Schlumberger

Monday, 22 August • 1600-1730 hours
TECHNICAL SESSION 6: CHALLENGING PROJECTS THAT OVERCOME ADVERSITY
Room Melati 4103, Level 4

Session Chairpersons:
Fredric Young, Dalma Energy
Tommy Tan, Lloyd's Register Energy - Drilling
Basker Murugappan, TAQA

Papers IADC/SPE
180678 Proving the Value of Logging-While-Drilling Seismic Technology in a Challenging Offshore Exploration Setting
A. Ahmed, Schlumberger WTA Malaysia Sdn. Bhd.; L. Morris, ConocoPhillips

180642 Real-Time Underbalance Perforating in Subhydrostatic Reservoir Improves Long-Term Well Performance: A Case Study of Well Injector in Malaysia

180639 Case Study: Kazakhstan's First Application of Inflow Control Devices (ICDs) for Horizontal Wells
A. Dehghani, Condor Petroleum Inc.; W.B. Hatcher and C.L. Smith, Condor Petroleum Inc.; Y.S. Mukhambetpaizov, Falcon Oil and Gas Ltd; D.J. Streu, Condor Petroleum Inc.

180688 Innovative Approach in Sidetracking Wells in Kuwait Brown Field Development Reduces Drilling Hazards and Improves Well Productivity
D.M. Al Saadi, Kuwait Oil Co.

Tuesday, 23 August • 0900-1030 hours
TECHNICAL SESSION 8: DRILLING FLUIDS
Room Melati 4102, Level 4

Session Chairpersons:
Arun Rajagopalan, Independent
Johann Plank, Technische Universität München
Jeff Li, Trican Well Service Ltd.

Papers IADC/SPE
180690 Application of Innovative High Density Non-Aqueous Fluids Technology in the Efficient Development and Production of Ultra-Deep Complicated Formations in the Tian Mountain Front Block in West China
L. Li, PetroChina Co. Ltd.

180633 Innovative Low-EC Invert Emulsion Fluid (LEIF) System Helped Operations to Score on Target
R. Mahrous, T. Barkmann and N. Elshof, Halliburton; J. Savignat, S. Lababidi and P. Rijken, Shell

180596 A Successful Implementation of Broad Spectrum Blend of Sized Biodegradable Fibrous Organic Loss Circulation Material to Combat Total Loss in Cisubuh Upper Formation, North West Java Basin, Indonesia
T. Mukhils, A. Kurniawan and T. Arhammar, PT Pertamina Hulu Energi ONWJ; A. Widyahening, PT OBM Drilchem

180504 Coefficient of Friction Reducing Efficiency of ARC Ecolube
M. Amanullah, Saudi Aramco PE&D EXPEC ARC
## Technical Sessions

### Tuesday, 23 August • 0900-1030 hours
**TECHNICAL SESSION 9: DRILLING MECHANICS (VIBRATION, STICK SLIP, ETC.), DIRECTIONAL DRILLING AND HOLE ENLARGEMENT**
Room Melati 4103, Level 4

**Session Chairpersons:**
- David Chen, Independent
- Robello Samuel, Halliburton - Landmark/Sperry Drilling Services
- Michael Jellison, Independent

**Papers IADC/SPE**
- **180518** Global Correlation of Rock Brittleness Indices with Petrophysical and Geomechanical Properties and its Application to the Prediction of Rate of Penetration (ROP)
  - M. Liu, J. He, Y. Chen and R. Samuel, Halliburton

- **180649** Advanced Dynamic Drillstring Modelling Delivers Consecutive under Reaming and Rat Hole Elimination Solutions Leading to Efficient Well Construction

- **180661** Optimising Drilling Operating Parameters with Real-Time Surveillance and Mitigation System of Downhole Vibration in Deep Wells
  - F. Zhao and M. Cui, CNPC Drilling Research Inst.

- **180657** Adaptive Cutting Transport Model for Variable String Eccentricity in Vertical/Deviated Wells - A Model-Assisted Drilling Optimisation
  - M. Aljabbar, Inst. Teknologi Bandung

### Tuesday, 23 August • 1100-1230 hours
**TECHNICAL SESSION 10: WELL DESIGN AND SMART WELLS**
Room Melati 4103, Level 4

**Session Chairpersons:**
- Peter Smith, GE Oil and Gas
- Wade Rebardi, Superior Energy Services LLC

**Papers IADC/SPE**
- **180579** Optimising Offshore Infill Drilling: Application of Conductor Sharing and Casing Drilling Techniques

- **180545** Effects of Injection Pressure on Wellbore Stress Using Flow-Stress Coupling Method

- **180581** A Comprehensive Survey Management Workflow
  - P. Schiermeier and J.A. Greenwood, Halliburton

- **180584** Productivity Index Coupled with Drilling Risk Index: Application to Geo-steering
  - R. Samuel, P. Pena, K. Nuna and G. Urdaneta, Halliburton

### Tuesday, 23 August • 1400-1530 hours
**TECHNICAL SESSION 11: GEOMECHANICS**
Room Melati 4101, Level 4

**Session Chairpersons:**
- Feng Gui, Baker Hughes

**Papers IADC/SPE**
- **180550** Pore Pressure Estimation and Implementation in Gas Shale Reservoir
  - X. Chen, Schlumberger

- **180519** Widened Safe Mud Window for Naturally Fractured Shale Formations: A Workflow and Case Study
  - X. Shen, Halliburton

- **180576** Mitigating Wellbore Stability Challenges in the Presence of Overpressure and Anisotropic Failure in Shales
  - M. Asadi and K. Rahman, Baker Hughes; P. Huynh Ho, Japan Vietnam Petroleum Co.; Q. Ta, Baker Hughes

- **180553** Integrity Assessment and Countermeasures of Wells Through Reactivated Faults in a Uganda Oilfield
  - J. Li, CNOOC Uganda Ltd.; F. Yin and D. Gao, China U. of Petroleum, Beijing; Z. Yang, M. Xiang and C. Huang, CNOOC Uganda Ltd.

### Tuesday, 23 August • 1400-1530 hours
**TECHNICAL SESSION 12: DRILLING TUBULARS**
Room Melati 4102, Level 4

**Session Chairpersons:**
- Robello Samuel, Halliburton - Landmark/Sperry Drilling Services
- Koji Sakura, Tenaris

**Papers IADC/SPE**
- **180659** Integrated Workflow Methodology of Tubular Design Analysis for Deepwater Wells with Subsea Wellhead System
  - R. Rizkiaputra, Inst. Teknologi Bandung; Y.R. Costamte, Chevron Indonesia Co.; S. Mabunga, Halliburton

- **180612** An Innovative Pipe Grade to Enhance Reach of Deeper Prospects in Sour Fields
  - G. Plessis and M.J. Jellison, NOV Grant Prideco; B.J. Vinson, Sub Surface Tools; A.P. Pink, National Oilwell Varco; L. Hehn, NOV Grant Prideco

- **180540** Metal Anchoring and Sealing Expandable Liner Hanger Design, Development and Application in Deep Water West Africa
  - J. McCormick, M. Kelsey and S. Maddux, Halliburton

- **180625** Optimising Well Service Jobs in Jatibarang Field by Applying Tubing Tester Plug Tools
Tuesday, 23 August • 1400-1530 hours
TECHNICAL SESSION 13: WELL STIMULATION (FRACING AND ACIDIZING)
Room Melati 4103, Level 4

Session Chairpersons:
Tomaso Ceccarelli, Schlumberger IPM
Keith Rae, TAM Intl. Asia Pacific Pty. Ltd.

Papers IADC/SPE
180546 A Case Study: Field Application of Ultra-High Temperature Fluid in Deep Well
L. Wang and M. Che, RiPED, Langfang Branch, PetroChina

180588 Delayed Crosslinking Composition or Reaction Product Thereof for Treatment of a Subterranean Formation
S.D. Agarwal, Halliburton

180524 Innovative Technique to Lower Breakdown Pressures of Hard Formations Through Acid Flush in Hydraulic Fracturing Treatments

180561 Damage of Fracture Face Skin in Massive Hydraulic Fracture Stimulation
S. Li, Y. Ding, B. Cai and C. He, RiPED, Langfang Branch, PetroChina; G. Liu, China U. of Petroleum, Beijing

Tuesday, 23 August • 1600-1730 hours
TECHNICAL SESSION 14: HSE, COMPETENCE AND RISK MANAGEMENT
Room Melati 4103, Level 4

Session Chairpersons:
Fredric Young, Dalma Energy
Karen Stanley, Petrofac
Elie Daher, United Safety

Papers IADC/SPE
180575 “Fixing” Human Error in Major Hazard Events (MHE)
P.V. Bridle, Pegasus Risk Management

180531 Reducing Risk: Questions Oil and Gas Leaders Need to Ask and Answer
T. Matthews, DEKRA Insight

180620 Drilling Competency Model, a Case Study of an Upstream Oil & Gas Company

180648 Next Generation Gas Emission Monitoring System
A. Wesley and I. Uyanik, Halliburton

Wednesday, 24 August • 0900-1030 hours
TECHNICAL SESSION 16: FIELD DEVELOPMENT AND MATURE FIELD REJUVENATION
Room Melati 4102, Level 4

Session Chairpersons:
Rasim Yildiz, Schlumberger
Basker Murugappan, TAQA

Papers IADC/SPE
180551 Successful 20 Well Stimulation Campaign in a Mature Oil Field in Myanmar
J.R. Shaoul and I. Tkachuk, Fenix Consulting Delft; D.J. Chia and T. Nyo, MPRL E&P Pte. Ltd.; J. Eng, NEHL

180512 Risk Reduction in the Acquisition of Formation Evaluation Data with the Development of Small-Diameter Open-Hole Logging Tools
P.J. Williams, T. Mayor, A. Pereira, S. Lawrance, J.R. Samworth, T. James and H. Patel, Weatherford UK

180674 Efficient Approach for Optimal Well Placement to Optimise the Underwater Distributary-Channel Laminated Reservoir Development in Offshore South China
Y. Wu, S. Xiong, J. Li and J. Wan, CNOOC-CCLS; B. Chang, C. Wang, C. He and J. He, Schlumberger

180586 An Integrated Workflow for Successful Development of Complex Tight-Gas Reservoirs in North India: A Case Study
S.S. Abdelaziz, J. Leem and A. Praptono, Halliburton; P. Shankar, B. Mund and A. Kumar, Cairn India Ltd.

Wednesday, 24 August • 0900-1030 hours
TECHNICAL SESSION 17: SPECIAL TECHNIQUES IN MPD, UBD AND ERD
Room Melati 4103, Level 4

Session Chairpersons:
Guillaume Plessis, NOV Grant Prideco
Fikri Irawan, Weatherford

Papers IADC/SPE
180621 Extending the Life of an Offshore Platform via Multilateral and ERD Technology
R. Sanchez and K. Fischer, Exxon Mobil Corp.; R. Molloy, Exxon Neftegas Ltd.
Technical Sessions

180665  Identification of Shallow Gas Leaks through Multiple Strings Using Slickline with Fiber-Optic Distributed Temperature Sensing

180558  Application of Hybrid Drilling to Develop Sour Gas Fields in Congested Area
F. Moid, Saudi Aramco PE&D GRMD

180637  Best Practices and Lessons Learned on the Application of Managed Pressure Drilling (MPD) Technology for High Pressure High Temperature (HPHT) Wells in Vietnam
H. Dalgit Singh, Weatherford Solutions Sdn. Bhd.; J. Oracion, Weatherford Asia Pacific; C. Tan, Weatherford; B. Ta Quoc, Weatherford Asia Pacific

Wednesday, 24 August • 1100-1230 hours
TECHNICAL SESSION 18: HPHT
Room Melati 4103, Level 4

Session Chairpersons:
Suresh Kumar, Oil & Gas Consulting Firm
Bob Kerr, Scientific Drilling
Fikri Irawan, Weatherford

Papers IADC/SPE
180660  HPHT Field Development Experience Transfer
M.T. Gibson, IDEAS Singapore Ltd.

180654  Downhole Multi-Purpose Selective Actuation Circulation Tool Combined With RTD Packers During Inflow Test Drilling Operations: Field Experiences
K.J. Aljaafar, MIT Technologies; N.B. Fauzi, PETRONAS; A.M. Tahoun, MIT Technologies

180628  A Well Control Approach with Managed Pressure Drilling (MPD) on HPHT Wells in Vietnam - Case History
H. Dalgit Singh and J. Oracion, Weatherford Asia Pacific; C. Tan, Weatherford; B. Ta Quoc, Weatherford Asia Pacific

180641  Real-Time Interpretation of Gas Trend to Support Formation Pressure Evaluation While Drilling
C.R. Latimer, N. Raysoni and K. Hall, Halliburton

BUSINESS NETWORKING AT THE OFFICIAL WELCOME RECEPTION

Come network and socialise at the Welcome Reception being held for all APDT participants at 1730 hours on Monday, 22 August, on the exhibit floor, Orchid Main Ballroom, Level 4 of the Sands Expo & Convention Centre. Get acquainted with others in the industry while you enjoy beverages and canapés in a relaxed business/social atmosphere.

Sponsored by:

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Knowledge Sharing ePoster Sessions

(Additions/changes made after 18 April will be reflected in the onsite programme)

An ePoster, presented on a digital screen offers the added benefit of animation and video to enhance the visual experience and provide greater interactivity between attendees and authors.

During the ePoster session, authors will present their technical papers at designated ePoster stations. Attendees are encouraged to attend the sessions for more knowledge sharing and networking opportunities. ePosters are also available for attendees’ viewing at ePoster stations throughout the conference.

Papers IADC/SPE

180498  **Gulffaks Satellite First Successful Rat Hole Elimination Design in Tight Anti Collision Scenario**
R. Kallestad, Statoil ASA; H.K. Hassan, Schlumberger; G. Skofteby, Statoil ASA; J.D. Blackburn and H.A. Beeh, Schlumberger
(Alternate Paper in Technical Session 9)

180501  **Study of the Stability, Dynamic of Drilling String and Selection the Drill Bits for Bottom Hole Assembly During Drilling in the Basement Formation, Offshore Viet Nam**
T.N. Huu, PetroVietnam U.
(Alternate Paper in Technical Session 9)

180502  **Decommissioning of High Torque Threaded Drilling Riser at World Record Break Out Torques of 257,000 ft-lbs**
(Alternate Paper in Technical Session 12)

180503  **Elimination of Wellbore Instability While Drilling and Completion of Fractured Shale Formation**
A. Ruzhnikov, Schlumberger
(Alternate Paper in Technical Session 11)

180511  **Application of Under-Balanced MPD in Fractured Granite Formation of Indonesia**
(Alternate Paper in Technical Session 17)

180513  **A Simple Mathematical Model for Predicting Temperature Profile in Underbalanced Drilling**
L. Shan, Northeast Petroleum U.; B. Guo, U. of Louisiana at Lafayette; N. Wei, Southwest Petroleum U.
(Alternate Paper in Technical Session 17)

180514  **The Application of Cluster Drilling Technology in High Pressure Salt Gypsum Formation in Swamp Wetland of N.A Oilfield of Iran**
L. Ping, X. Wang and K. Zou, CNPC Drilling Research Inst.
(Alternate Paper in Technical Session 6)

180515  **Conical Diamond Element Technology Delivers Step Change in Directional Drilling Performance**
V. Radhakrishnan, Schlumberger Overseas S.A.; A. Chuttani, PTTEP; F. Anggraini, H. Nan and S. Onkvisit, Schlumberger Overseas S.A.
(Alternate Paper in Technical Session 9)

180516  **Automated Data Driven Fluid Design: Predicting the Properties of Drilling, Spacer and Cement Slurry Fluids**
A. Shadravan, ReservoirFocus, and M. Tarrahi, Texas A&M U.
(Alternate Paper in Technical Session 7)

180520  **Formulating Water-Based Muds for High Temperature Wellbores Using Potassium Formate Brine and Synthetic Polymers: A Design of Experiment Approach**
R.M. Al Bendary and T.N. Ofei, U. Teknologi PETRONAS
(Alternate Paper in Technical Session 8)

180522  **A Fair and Competitive Drilling and Workover Services Assignment Process**
(Alternate Paper in Technical Session 14)

180523  **Rheology Modification for Safe Cementing of Low-ECD Zones**
(Alternate Paper in Technical Session 4)

180525  **Reliability Milling Curves as Decision Tool Making in Case Hole Side Tracking Applications**
D.A. Palomino Rojas, C. Pinard, S. Steinke and B.M. Moss, Schlumberger
(Alternate Paper in Technical Session 1)

180527  **Enhancing Zonal isolation with Expandable Cement System for Gas Field**
E. Tanoto and F. Inayah, Schlumberger
(Alternate Paper in Technical Session 4)

180528  **Development Plan and Economical Evaluation for Sirte Basin Oil Field**
L.A. Alshafi and M. Elhouni, U. of Tripoli
(Alternate Paper in Technical Session 15)

180529  **Evaluation of Miscible CO₂-Flooding to Improve Oil Recovery in a Clastic Heterogeneous Reservoir**
A.K. Al-Khazraji, Iraqi Ministry of Oil & U. Teknologi PETRONAS; M.B. Awang, U. Teknologi PETRONAS
(Alternate Paper in Technical Session 2)

180530  **Managing BHA Integrity with BHA Design Based on Bending Moment and Stress Analysis**
R.J. Harmer and H.G. Suryadi, Schlumberger
(Alternate Paper in Technical Session 9)

180535  **The Principle and Application of a Novel Rotary Percussion Drilling Tool Drived By Positive Displacement Motor**
L. Xuan, Z. Guan H. Hu, J. Li and B. Zhang, China U. of Petroleum (East China)
(Alternate Paper in Technical Session 1)

180537  **Physical Concept Validation Testing Performed for a Pore and Fracture Pressure Margin Prediction System During Offshore MPD Operations**
A. Johnson, B. Piccolo and C. Leuchtenberg, Managed Pressure Operations
(Alternate Paper in Technical Session 7)

180539  **Study on Structure Parameters of Reverse Circulation Drill Bit Secondary Injector Device Based on Injector Coefficient**
(Alternate Paper in Technical Session 1)
Knowledge Sharing ePoster Sessions

180541  A Brief Introduction to High Temperature and Foam Free Water Based Drilling Fluids
Z. Rashedi, K. Tahmasbi and M. Kalhor Mohammadi, Pars Drilling Fluids Co.
(Alternate Paper in Technical Session 18)

180542  Appropriate Completion to Prevent Potential Damage of Annular Pressure Buildup in Deepwater Wells
B. Zhang, Z. Guan, Q. Wang, L. Xuan, Y. Liu and Y. Sheng, China U. of Petroleum (East China)
(Alternate Paper in Technical Session 5)

180543  Experiment and Numerical Simulation Study on the Influence of Fracture Deformation to Tight Oil Production
L. Sun, China U. of Petroleum, Beijing
(Alternate Paper in Technical Session 16)

180544  Enhancing Wellbore Strengthening While Drilling Subnormal and Overpressured Formation Types
E. Mammadov, N. Osayande and H.J. Gao, Weatherford Canada Partnership
(Alternate Paper in Technical Session 17)

180548  Supercharging Assessment in Formation Pressure Measurements Made While Drilling By Deliberately Pulsed Circulation in a Chalk Reservoir
A.G. Ceyhan, Schlumberger; M. Bravo, Schlumberger AS; K.C. Walrond, U. of Stavanger; D. Steer, A.B. Graeber and G.A. Abdrahman, Maersk Oil & Gas
(Alternate Paper in Technical Session 17)

180549  Integrated Design of Well Abandonment Operation in Deepwater Well
A.F. Hardama, Inst. Teknologi Bandung
(Alternate Paper in Technical Session 5)

180552  Logging While Drilling (LWD) Formation Pressure Testing Technology Enables Better Reservoir Understanding and Completion Optimisation
P. Tran, Baker Hughes; G. Jones, Esso Australia; N. Bokides, Baker Hughes
(Alternate Paper in Technical Session 16)

180554  Extending Life of Mature Oil Wells with Various Type of Siphon String Application in Offshore North West Java
K. Wibowo, B. Widiantoro and R.C. Kurniawan, PT Pertamina Hulu Energi ONWJ; Y. Azizan, Halliburton Energy Services Group
(Alternate Paper in Technical Session 17)

180556  Integrated Holistic Approach to Drill Middle East Region Sensitive Shales Successfully
(Alternate Paper in Technical Session 11)

180557  New Bit Technology Helps Operator Overcome Drilling Challenges, Avoid Multiple Trips, and Save Costs While Setting World-Record Single-Run Footage, North Kuwait
A. Jumaa, A.Q. Al-Sarraf and A.H. Esmaiel, Kuwait Oil Co.; A.H. Jokhi, O. Ghoneim, S. Hassan and P. Nair, Smith Bits
(Alternate Paper in Technical Session 11)

180560  Mathematical Model Provides Annular Temperature Profile for Thermal Hydraulics in Drilling Gas Hydrates
B. Guo, U. of Louisiana at Lafayette; G. Li, Southwest Petroleum U.; L. Shan, Northeast Petroleum U.; B. Li, U. of Louisiana at Lafayette
(Alternate Paper in Technical Session 14)

180562  Managing BHA Components Integrity with a Fatigue Management Workflow
H.G. Suryadi, E. Parkin, K. Brovko, K. Li and Y. Chen, Schlumberger
(Alternate Paper in Technical Session 7)

180563  Floating Mud Cap Drilling Application in Exploration Well Accelerate Reaching Target Depth While Drilling Surface Hole
A.R. Muies and A. Mustari, PT Weatherford Indonesia; F. Irawan, Weatherford Asia Pacific Pte.; A. Karnugroho, Weatherford
(Alternate Paper in Technical Session 6)

180564  Tailored Innovative Bit Technologies Lead to Significant Cost Saving and Performance Improvement in the Ultra-Deep Formation of Tarim Basin in West China
L. Zhao and C. Cheng, CNPC USA; X. Teng, Z. Xu, S. Feng, N. Li, B. Zhou and T. Zhang, PetroChina Tarim Oil Field Co.; D. Chen, X. Yang and Y. Liu, CNPC USA
(Alternate Paper in Technical Session 1)

180565  A Novel Environmental Friendly Lubricant for Water-Based Drilling Fluids as an New Application of Biodiesel
W. Li, X. Zhao, H. Peng, B. Chen, Y. Yang and X. Xia, China U. of Petroleum, Beijing; L. Liu, Xinjiang U.
(Alternate Paper in Technical Session 8)

180566  Continuous Operation Model in Multi-Well Pad W202H2: First Shale Gas Factory in Block Weiyuan, SW China
N. Liu and M. Liu, CNPC Greatwall Drilling Co.
(Alternate Paper in Technical Session 15)

180567  The New Analysis Method of Permeability Stress-Sensitivity and Stimulation
(Alternate Paper in Technical Session 15)

180568  Innovative Logging Technique Enables Accurate Detection of Temperature Anomaly Source in a Special Completion
N.M. Hajri, Saudi Aramco SAOO
(Alternate Paper in Technical Session 7)

180569  Curing Severe Losses during Drilling While Protecting the Reservoir Productivity Potential by Using Proprietary Degradable Fiber (PDF)
D. Nana, Schlumberger; G. Buyers, D. Burton, J. Gomes, E. Pulman and A. Tickoo, Repsol; A.W. Meyer, Schlumberger; M. Munozrivera, Dowell Schlumberger West
(Alternate Paper in Technical Session 15)

180571  Utility Calculation Model of Drilling Fluids Density and ESD for HTHP Well While Drilling
(Alternate Paper in Technical Session 18)

180574  Post Well Pore Pressure Analysis Facilitated By Managed Pressure Drilling
A.W. Brands, S. Roberts and M.M. Rajabi, Weatherford
(Alternate Paper in Technical Session 17)

180583  Environmental Management of Salt-Free Invert Emulsion Drilling Fluids
K. Newman, J.J. Miller and Y. Ayapbergenov, Halliburton
(Alternate Paper in Technical Session 10)
Knowledge Sharing ePoster Sessions

180585 MSE Applied to Drilling Performance and Risk Mitigation: Practical Applications in GOM
A. Silvan, W. Cardoso, R. Goersch Guedes, G.L. Orellana and R. Salomao, Halliburton
(Alternate Paper in Technical Session 1)

180587 Integrated Workflow for Feasibility Study of Cuttings Rejection Based on 3D Geomechanics Analysis and Case Study
X. Shen, W.B. Standifird and G. Shen, Halliburton
(Alternate Paper in Technical Session 11)

M.T. Gibson, IDEAS Ltd.
(Alternate Paper in Technical Session 14)

180590 A Semi-Empirical Carbonate Acidising Model for Chelating-Agent-Fatured Fluids
V. Baghel and J. Pravesh, Halliburton Energy Services Group
(Alternate Paper in Technical Session 13)

180591 Time-Based Drilling Dynamics Modelling Provides BHA Solutions to Motor Development
J. Shi, Y. Shen, G. Zheng and G. Xu, Schlumberger
(Alternate Paper in Technical Session 9)

180592 Taking the Heat: Logging While Drilling at Extreme Temperatures
T.J. Parker and P.A. Cooper, Halliburton
(Alternate Paper in Technical Session 18)

180594 Setting Cement Plugs in Challenging High-Pressure, High-Temperature Conditions Offshore Vietnam
A.T. Duong, Dowell Schlumberger; M. Bogaerts, Schlumberger
(Alternate Paper in Technical Session 14)

180595 A New High-Temperature Shear-Tolerant Supramolecular Viscoelastic Fracturing Fluid
J.Q. Hui and L. Wang, China U. of Petroleum, Beijing
(Alternate Paper in Technical Session 13)

180597 A Coupled Model for Predicting Flowing Temperature and Pressure Distribution in Drilling Ultra-short Radius Radial Wells
X. Li, G. Li, H. Wang, Z. He, P. Lu and Q. Liu, China U. of Petroleum, Beijing
(Alternate Paper in Technical Session 16)

180599 A Study of Technical Specifications for High Grade Casing in Deep Wells
J. Wang, CNPC Tubular Goods Research Inst.
(Alternate Paper in Technical Session 12)

180603 Robotic Drilling System Applications in Arctic Conditions
R. Rafati, M.J. Watt, H. Hamidi and R. Lawrie, U. of Aberdeen
(Alternate Paper in Technical Session 17)

180605 Collaborative BHA Design Optimisation Modelling Leads to a Succesful Run in a Challenging Formation
B. Noviasta and S. Awaliyah, Schlumberger; B.D. Hasudungan, Citic Seram Energy Ltd.
(Alternate Paper in Technical Session 9)

180606 Improving Oil Recovery in Complex Heterogeneous Reservoirs of Highly Mature Oil Fields Through Innovative Measurement and Strategies - A Case Study From South China Sea
Y. Wu and Y. Zhang, CNOOC; C. Wang, B. Chang and J.C. Kok, Schlumberger China SA
(Alternate Paper in Technical Session 17)

180608 High Stress Contrast Among Different Lithologies and Its Implications Towards Drilling and Stimulation in Northern Cooper Basin
(Alternate Paper in Technical Session 11)

180610 Utilising Advanced Solids Control Methods as a Means for Improving Drilling Efficiency and Reducing Operational Costs
J.E. Estep, M-I SWACO, a Schlumberger Co.; D. Bryant, Independent
(Alternate Paper in Technical Session 15)

180612 Integration of Hybrid Rotary Steerable System and Advanced LWD Technology: New Horizons in Field Development in West Africa
(Alternate Paper in Technical Session 7)

180613 A Local Mechanical Model of Down-Hole Tubular Strings and Its Amendment on the Integral Model
W. Huang and L. Gao, China U. of Petroleum, Beijing
(Alternate Paper in Technical Session 9)

180614 Rock Mechanics Characterisation Using Borehole Images and Sonic Anisotropy Measurements to Optimise Perforation and Frac Design in Complex Structure Setting of Oman
R.R. Kumar, Schlumberger Asia Services Ltd.; S.A. Al Bimani, Schlumberger Oman; R. Tawfik, PDO; R. Al Lawatia, A. Dhafyiar Al Ghafri and D.G. Yu, Schlumberger Oman
(Alternate Paper in Technical Session 11)

180616 Zonal Isolation in a High Stress Environment: A Case History in Venezuela’s In-Situ Combustion Wells
A. Brandl, Baker Hughes; A. Bottiglieri, Baker Hughes Inc; J.J. Garcia, Petroleos de Venezuela S.A.
(Alternate Paper in Technical Session 15)

180617 Use of Organic Clay Mud Acid and Visco-Elastic Surfactant Based Diverter for Selective Stimulation in High Water-Cut Wells
N.S. Koshy, S. Anand and S. Tiwari, Cairn India Ltd., A. Arun, Schlumberger Asia Services Ltd.
(Alternate Paper in Technical Session 17)

180618 Application of “Well Factory” Drilling Technology in Shale Gas Development in the Sichuan Basin
Y. Liu, T. Ma and P. Chen, Southwest Petroleum U.
(Alternate Paper in Technical Session 17)

180619 Rheology and Density Prediction of Super Lightweight Completion Fluid (SLWCF) at Reservoir Conditions
(Alternate Paper in Technical Session 2)

180621 Unitised Wellheads for Rajasthan Onshore Development Drilling - Proven Safer and Economical Wellhead Design Compared to Bowl and Slip Wellheads
P. Sinha, A. Ranjan, P. Srivastava, S. Doodraj and C.M. Lang, Cairn India Ltd.
(Alternate Paper in Technical Session 2)
180624 Field Implementation of an Engineered Fibers-Based Spacer Solution for Improved Mud Removal Efficiency - Gulf of Thailand Case History
A.A. Olutimehin and S. Taoutaou, Schlumberger; M. Pasteris, PT Dowell Anadrid Schlumberger; J.A. Vargas, Dowell Schlumberger (Alternate Paper in Technical Session 4)

180625 Integrating Software for Improved Well Planning
M.C. Ponsonby, AGR (Australia) Pty Ltd.; P. Mathisen, AGR (Alternate Paper in Technical Session 14)

180626 GeoSteering in Complex Channel Sand Architecture, a Reality Now with High Definition Deep Directional Multi Boundary Detecting Technology: Case Study from Greater Burgan Field, Kuwait

180627 Preliminary Study of Electric Downhole Heater Application for Klamono Heavy Oil Production Optimisation

180628 Dynamic Valuation Methodology for Fatigue Failure of Drill String

180629 Employing Process, Benchmark Automation and Real-Time Analysis to Improve Drilling Efficiency?

180630 A Lean-Based Drilling Operations: A New Approach for NPT Reduction
A.E. Basbar, Swift Technical Solution, and E. Summad, Quartet Solutions (Alternate Paper in Technical Session 14)

180631 Field Tests of Shale Bits with Enhanced Hydraulic Design
A. Moslemi, NOV Wellbore Technologies; J.R. Cunningham, National Oilwell Varco; A. Wang, NOV Wellbore Technologies (Alternate Paper in Technical Session 1)

180632 Case History: Development of Expandable Liner Hanger for use in New Heavy Wall Casing Design in Gulf of Mexico: Case History

180633 A Numerical Analysis of Bottomhole Velocity and Pressure Distributions of High Pressure and High Temperature Jet

180634 Improving Directional Survey Accuracy through Real-Time Operating Centers
J.S. Deverse, Surcon Ltd., and S. Maus, Magnetic Variation Services LLC (Alternate Paper in Technical Session 7)

180635 4D FEA Simulation Assisted Pre-Job Planning Achieved Record-Breaking ROP and Delivered Longest Horizontal Section Well in West China
S. Wang, X. Wang, X. Bai and J. Gao, Schlumberger China SA (Alternate Paper in Technical Session 9)

180636 Optimisation Leads to Improved Hybrid Bit Design and Enhanced Drilling Efficiencies in Challenging Vertical Application in Tarim Basin, China

180637 First Implementation of a Resilient and Self-Sealing Cementing System to Optimise Long-Term Zonal Isolation in Challenging Offshore Wells - Review of 3 Case Histories in Malaysia
A. Brandl, A. Alegria, M. Ismail, R. Mahaiyudin and G.D. Dean, Baker Hughes (Alternate Paper in Technical Session 4)

180638 Successful PMCD Application Significantly Improved Drilling Efficiency on Carbonate Drilling

180639 The Development of A Viscosifier for Clay Free and Water Based Drilling Fluid With High Density and High Temperature Resistant
X. Zhang, G. Jiang and Y. Xuan, China U. of Petroleum, Beijing (Alternate Paper in Technical Session 8)

180640 Common Incident Reporting and Tracking Platform

180641 How Dynamic Hydraulic and Well Control Modelling Has Been Utilised for Planning, Well/Rig Specific Training and RT Supervision for HPHT, MPD & DGD Operations in an Integrated Lifecycle Simulation System

180642 Enhanced Drilling Capabilities with Innovative Drill Ship Design
R.H. Pinkstone, Managed Pressure Operations; J. Klepsvik, Global Well Response; B. Lambregts, Ulstein (Alternate Paper in Technical Session 17)

180643 Experimental Investigation of Geometry and Aggregation Effect of Particles on Induced Formation Damage by Nano Water Based Drilling Fluid in Directional Wells
M. Sedaghat Zade and K. Shahbazi, Petroleum U. of Technology Iran; M.H. Ghazanfari, Sharif U. of Technology (Alternate Paper in Technical Session 8)
Bespoke Fast-Track Training Programme Proves Successful for Major Drilling Contractor in Singapore
M.T. Gibson, IDEAS Ltd.
(Alternate Paper in Technical Session 14)

Customised WBM to Address Challenges in Drilling Highly Deviated Wells Including Drilling Reactive Shale Through Depleted Zones
M.O. Fathallah, Baker Hughes
(Alternate Paper in Technical Session 8)

Application Focused Drill Bit Engineering Delivers Consistent Improvement in Efficient Drilling Performance
W. Agawani, Baker Hughes Solutions
(Alternate Paper in Technical Session 1)

Study of Acrylic Acid-co-Polyethylene Glycol Allyl Ether as Cement Retarder over a Broad Temperature Range
A. Brandl, Baker Hughes, and A. Doan, Baker Hughes Inc.
(Alternate Paper in Technical Session 15)

Influence of Non-Isothermal Effects on Pressure Measurements During Real-Time Well Testing of Highly Productive Reservoirs in Deepwater Wells
P. Maizeret, Schlumberger; M. Sidorova, Schlumberger
Moscow Research Center
(Alternate Paper in Technical Session 7)

Well Side-Track Optimisation Using Electromagnetic and Ultrasonic Measurements Across Dual Strings for Well Integrity Assurance
D.M. Al Saadi, Kuwait Oil Co.
(Alternate Paper in Technical Session 14)

Samarang Downhole Integrity Diagnostic Techniques
(Alternate Paper in Technical Session 3)

Who Attends?

Well Engineering Managers/Directors
Petroleum Engineers
Drilling Services Managers/Directors
Exploration Engineers/Managers
Procurement Managers, Drilling and Exploration
Geologists and Petrophysicists
Rig Operators
Contracts Managers
Drilling Team Leaders and Management
HSE Officers/Managers
Drilling and Completion Engineers/Managers
Senior Executives

Primary Area of Technical Interest

71% Drilling and Completions
10% Production and Operations
6% Reservoir Description and Dynamics
6% Management and Information
4% Health, Safety, Security, Environment, and Social Responsibility
3% Projects, Facilities and Construction

Job Classification

35% Engineer
23% Supervisor / Manager
17% Other / Academia
12% Entry Level
8% Executive / CEO / VP
5% Senior Advisor
Training Course Description
Well Integrity management is looked at in three distinct stages, the first stage is during the well design which includes material selection, engineering design, cement design, coating and inhibitors and cathodic protection. The second stage is monitoring the well during the life of the well locating possible leaks and/or loss of metal. The last stage is to manage and control any well integrity issues using specialised products, services and techniques. This course will:

- Define the building blocks of a successful well integrity management programme
- Define well integrity well categorisation based on compliance to the barrier policy outlined in the regulations and develop an approach to risk management
- Well Barriers and their verification
- Monitoring and surveillance of well integrity (focus on cementing)
- Monitoring and surveillance of well integrity (focus on corrosion)
- Understand the well integrity ISO standard

Learning Level: Intermediate
Duration: 2 days

Learning Objectives
To enable participants to understand the well integrity management principles and well integrity components during the lifecycle of the well and acquire the tools and methods to eliminate and/or mitigate the loss the well integrity during design, construction and well operations. Participants will also learn how to manage a well within its operating envelope which has lost its integrity.

Daily Agenda

**Day 1**
- Well integrity components and general concept
- Well integrity categorisation based on barrier policy
- Well barriers and verification
- Types of well barriers
- Well control
- Well integrity and cementing

**Day 2**
- Monitoring and surveillance with focus in cement and corrosion
- Surveillance and monitoring of cement isolation
- Cathodic prediction
- Mitigation special cements
- Annulus pressure management
- Mitigating annular pressure

Instructor Biography
Salim Taoutaou is the Well Integrity & Cementing Global Domain Head and Technical Advisor for Schlumberger. He manages the global development of the well integrity cementing domain strategy, providing optimal well integrity cementing solutions for clients. Through his 18 years in the oil and gas industry, he has held various positions in the North Sea region, the Middle East and Asia. He is an active SPE member and has authored more than 43 international journal and conference papers, is the holder of two patents and was the recipient of the SPE 2014 Asia Pacific Regional Technical Award in Drilling Engineering.

Registration
**Super Early Bird – Register by 22 June 2016 and Save up to USD400!**
**Early Bird – Register by 22 July 2016 and Save up to USD300!**
Advance Registration Deadline – 8 August 2016
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Exhibition and Sponsorship

The technical exhibition will include an international cross section of service and supply companies providing opportunities to learn about new products and improvements to existing technologies. Representatives from exhibiting organisations will be on hand to demonstrate solutions for the challenges facing stakeholders in oil and gas exploration and production.

Scheduled coffee breaks and networking luncheons in the exhibition hall will provide ample opportunity to meet exhibitors, review old acquaintances, and make new contacts in the exhibition area.

Sponsorship Opportunities

For more information on Exhibition and Sponsorship opportunities, contact Christopher Wong, Sales Manager, Society of Petroleum Engineers at cwong@spe.org or call +603 2182 3148.

**Exhibition Opportunities**

**Sponsorship Opportunities**

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<td>Networking Luncheon−Day 3 (24 August)</td>
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<td>Coffee / Tea Breaks−Day 1 (22 August)- Two breaks per day</td>
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<td>Silver Sponsors</td>
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**List of Exhibitors**

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Advance registration payment can be made by telegraphic transfer or credit card:
1. Bank details will be provided on the invoice for telegraphic transfers.
2. Credit Card payments will be in US Dollars (USD) only.

Conference materials and badges will not be mailed in advance, but should be collected at the Conference Registration Counter, Pre-Function Area, Level 4, Sands Expo & Convention Centre during registration hours.

To avoid congestion during the event, delegates are encouraged to collect their materials/badges at the Registration Counter on Sunday, 21 August between 1200-1700 hours.

Registration Package and Fee

Full Conference Registration Fee: Includes admission to technical and e-poster sessions, exhibition, welcome reception, daily luncheons, daily coffee/tea breaks and one (1) Digital Proceedings.

One-Day Registration Fee: Includes admission to technical and e-poster sessions, exhibition, luncheon and coffee/tea breaks for the selected day only.

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Delegates may register on-site at the Conference Registration Counter, Pre-Function Area, Level 4, Sands Expo & Convention Centre at the following times and dates:

• 1200-1700 - Sunday, 21 August 2016
• 0730-1930 - Monday, 22 August 2016
• 0730-1900 - Tuesday, 23 August 2016
• 0730-1400 - Wednesday, 24 August 2016

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Cancellations must be received in writing by the SPE Asia Pacific Office address shown on the Advance Registration Form no later than 8 August 2016 to receive a refund less USD150 processing fee. No refund will be accepted after this date. Substitutions will be accepted.

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Full conference registrants are entitled to one (1) set of Digital Proceedings, available for collection at the conference. Additional Proceedings may be ordered on the Advance Registration Form or purchased during registration hours at the conference for USD100 (IADC/SPE member) and USD150 (non-member).

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Hotel accommodation can be reserved at special rates at the Marina Bay Sands Hotel, where room blocks are being held for conference delegates.

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All visitors to Singapore must be in possession of a passport that is valid for at least six (6) months on arrival, and where necessary, must hold a visa issued by the appropriate authorities prior to departure from their home countries. If you are unsure whether a visa is required, please check with the Singapore Immigration & Checkpoints Authority http://www.ica.gov.sg/ or with your local consular office before your departure. An invitation letter to facilitate the application of visa will be issued to attendees if required.

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All portions of this form must be completed. Print your name as it should appear on the meeting badge. Registration will not be processed without payment.

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**Full conference period includes technical sessions, exhibition, coffee breaks, daily luncheons, welcome reception, networking reception and one (1) Digital Proceedings**

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**Total Amount**

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**REGISTRANTS ARE ENCOURAGED TO REGISTER IN ADVANCE**
# HOTEL RESERVATION FORM

**2016 IADC/SPE Asia Pacific Drilling Technology Conference and Exhibition**  
**SWDR16**  
August 22-24, 2016

Please return the completed form to Marina Bay Sands, Group Reservations Department.  
(email: groups@marinabaysands.com) by 29 July, 2016. All bookings are subject to room availability and the best rate available after 29 July, 2016.

### PARTICULARS

<table>
<thead>
<tr>
<th>Salutation:</th>
<th>Dr</th>
<th>Mr</th>
<th>Mrs</th>
<th>Ms</th>
<th>Others (please specify):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designation:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City / State:</th>
<th>Country:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone: ( )</td>
<td>Fax: ( )</td>
</tr>
<tr>
<td>Email:</td>
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</tbody>
</table>

### TRAVEL DETAILS

<table>
<thead>
<tr>
<th>Passport No.:</th>
<th>Passport Expiry:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Birth:</td>
<td>Nationality:</td>
</tr>
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### Additional Guest Name:

<table>
<thead>
<tr>
<th>Passport No.:</th>
<th>Passport Expiry:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Birth:</td>
<td>Nationality:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Arrival Date:</th>
<th>Departure Date:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Arrival Flight:</th>
<th>Departure Flight:</th>
</tr>
</thead>
</table>

### ROOM CATEGORY

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Rate*</th>
<th>Special Requests**</th>
<th>Number of Nights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deluxe</td>
<td>SGD380.00++ per room per night inclusive of 01 daily Breakfast and 24 hours Internet Access only</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SGD410.00++ per room per night inclusive of 02 daily Breakfasts and 24 hours Internet Access only</td>
<td>King</td>
<td>Double-Double</td>
</tr>
</tbody>
</table>

**Airport Limousine Pick up at S$120.00 NETT per way (Please tick if required):**

- Arrival (airport-hotel)
- Departure (hotel-airport)
- 2 way transfers required (airport-hotel-airport)

Please let us know of any special requests you may have, so that we can make every effort to ensure your stay is comfortable.

**Other special requests:**

1. Rates are subject to 10% service charge and prevailing Goods and Services Tax (GST).

2. Subject to availability.

**Please note:**

- Check-in time begins at 3:00pm and check-out time is by 11:00am
- All reservations must be guaranteed with a credit card. Please provide flight details if applicable
- Any cancellation/amendment must be received no later than 14 days prior to the scheduled arrival date, falling which a one (1) night's room charge (plus 10% service charge, prevailing government tax and incidental charges) to the credit card details of the individual attendee(s) provided for guaranteed
- In the event of no-show, room charge for all nights and prevailing service charge and tax will be charged to your credit card
- A confirmation letter will be sent to you once the booking has been made

To guarantee your reservation, kindly provide your credit card details in the space below:

<table>
<thead>
<tr>
<th>Name on Credit Card:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Card Number:</th>
<th></th>
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<tbody>
<tr>
<td>Card Type:</td>
<td></td>
</tr>
<tr>
<td>Expiry Date:</td>
<td></td>
</tr>
</tbody>
</table>

By providing my credit card details, I hereby authorise Marina Bay Sands Pte Ltd to charge my credit card to guarantee my reservation.

<table>
<thead>
<tr>
<th>Credit Card Signature:</th>
</tr>
</thead>
</table>

| Date: |

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Thank you for choosing Marina Bay Sands, we look forward to welcoming you!
SPE Asia Pacific Upcoming Events

SPE Artificial Lift Systems for Optimised Production Workshop
25-27 Jul | Bangkok, Thailand

SPE Reserves, Resources and Definition Workshop
16-17 Aug | Kuala Lumpur, Malaysia

SPE Asia Pacific Hydraulic Fracturing Conference
24-26 Aug | Beijing, China

SPE Gas & High CO2 Field Development: Technologies and Best Practices Workshop
19-20 Sep | Kuala Lumpur, Malaysia

SPE EOR: Enhancing the Reserve in a Cost-Effective Approach Workshop
19-20 Sep | Kuala Lumpur, Malaysia

SPE Flow Assurance: Life-cycle - Design, Management & Intervention/Remediation Workshop
19-20 Sep | Kuala Lumpur, Malaysia

SPE Reservoir Surveillance and Production Enhancement through Cost Effective Technology Integration and Operation Efficiency Workshop
10-11 Oct | Kuala Lumpur, Malaysia

SPE Brownfield Redevelopment Workshop
10-11 Oct | Kuala Lumpur, Malaysia

SPE Asset Abandonment - Emerging Reality Workshop
19-20 Oct | Kuala Lumpur, Malaysia

SPE Asia Pacific Oil & Gas Conference and Exhibition
25-27 Oct | Perth, Australia

International Petroleum Technology Conference
14-16 Nov | Bangkok, Thailand

SPE Well Integrity Workshop
5-6 Dec | Kuala Lumpur, Malaysia

SPE Managed Pressure Drilling Workshop
5-6 Dec | Kuala Lumpur, Malaysia

SPE Floating LNG Workshop
6-7 Dec | Kuala Lumpur, Malaysia

IADC Upcoming Events

IADC Drilling Onshore Conference & Exhibition
19-May | Omni Houston Hotel Westside, Houston

IADC International Tax Seminar
2-3 Jun | Moody Gardens Hotel, Galveston

IADC World Drilling 2016 Conference & Exhibition
15-16 Jun | Estoril Congress Centre, Lisbon

IADC Asset Integrity & Reliability Conference & Exhibition
30-31 Aug | Norris Conference Center CityCentre, Houston

IADC Advanced Rig Technology Conference & Exhibition
Exploring Advanced Technical Solutions for Onshore & Offshore Drilling
13-14 Sep | Moody Gardens Hotel, Galveston

IADC Drilling HSE&T Europe 2016 Conference & Exhibition
21-22 Sep | NH Grand Hotel Krasnapolsky, Amsterdam

IADC Human Factors Conference & Exhibition
4-5 Oct | Moody Gardens Hotel, Galveston

IADC Contracts & Risk Management Conference
11-12 Oct | Norris Conference Center, CityCentre, Houston

IADC Well Control Europe 2016 Conference & Exhibition
19-20 Oct | Hotel Scandic Copenhagen, Copenhagen

IADC Annual General Meeting
2-4 Nov | Hyatt Gainey Ranch Hotel, Scottsdale

IADC Critical Issues Middle East 2016 Conference & Exhibition
13-14 Dec | The Address Hotel, Dubai