IADC/SPE ASIA PACIFIC DRILLING TECHNOLOGY CONFERENCE AND EXHIBITION

Reshaping for a Smart and Sustainable Future

Conference Programme

27 - 29 AUG 2018

Bangkok Convention Centre at CentralWorld
Bangkok, Thailand

Host Organisation

Sponsoring Organisations

www.spe.org/go/18APDT
TURNING TARGETS INTO PERFORMANCE

As part of our global petroleum exploration and production, PTTEP strives for a balance that creates long-term value for business, environment and society in order to become a leading Asian E&P company driven by competitive performance, advanced technology and green practices. We are committed to conducting business under proper ethical practices, and good governance in tandem with outstanding environment and social performance which underpin our license to grow in a sustainable way.
About the Society of Petroleum Engineers

The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose more than 158,000 members in 143 countries are engaged in oil and gas exploration and production. SPE is a key resource for technical knowledge providing publications, events, training courses, and online resources at www.spe.org.

About International Association of Drilling Contractors

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.
On behalf of the Society of Petroleum Engineers (SPE), the International Association of Drilling Contractors (IADC), and the Programme Committee, thank you for your participation at the IADC/SPE Asia Pacific Drilling Technology Conference and Exhibition.

We are pleased to welcome you to Thailand for the region’s leading drilling event, where PTT Exploration and Production Public Company Limited (PTTEP) is honoured to be the Host Organisation.

Since the last edition of the event which was held in Thailand in 2014, the evolving challenges associated with oil price volatility has changed the energy landscape significantly. However, the growing rig count in Asia indicates that exploration and production activities are resuming as companies successfully apply new business models and technologies to achieve cost and operational efficiencies smartly and sustainably.

Under the theme “Reshaping for a Smart and Sustainable Future”, the Technical Programme Committee has developed a diverse and comprehensive programme that includes more than 90 technical papers to be presented in technical and knowledge sharing ePoster sessions. During the opening session, executive plenary session and panel sessions, we will hear insights from industry leaders on challenges and opportunities to create a fit for purpose set of tools, systems, models, technologies, and capabilities that are reshaping the industry for a smart and sustainable future.

In conjunction with the conference, a technical exhibition showcasing the latest industry advancements from more than 20 companies will provide a vibrant platform for industry professionals to learn about innovative products and services, share experiences, make new connections, and conduct business.

We would like to thank all of the committee members, speakers, exhibitors, sponsors and participants for their strong continued support of this event.

We encourage you to take advantage of the opportunities for both professional and personal enrichment through active participation in the conference and exhibition. We hope that your experience here will be a highly fruitful and rewarding one.
Committee

**Conference Chair**
Somporn Vongvuthipomchai, PTTEP

**Conference Vice-Chair**
Phongsthorn Thavisin, PTTEP

**Technical Programme Committee Advisor**
Chayong Borisuitsawat, PTTEP

**Technical Programme Committee Chair**
Pasuk Eagark, PTTEP

**Technical Programme Committee Vice-Chair**
Eric Wagner, Chevron

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Thomas Fredric Young, Al Qahtani Management Services LLC
Feng Gui, Baker Hughes, a GE company
Darryl Eisler, Baker Hughes, a GE company
Nick Wasuthalainunt, Baker Hughes, a GE company
Martin Culen, Blade Energy Group
Manaw Kumar Agrawal, Dynamic Drilling Holdco Pte. Ltd.
Rolv Rommetveit, eDrilling
Alex Maroske, Energy Drilling
Fikri Irawan, GEOLOG International
Matt Regan, GEOLOG International
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Habil Akram Rosland, Halliburton
Robello Samuel, Halliburton
Chit Hlaing, IADC
Horkiz Rouzi, IADC
Arun Rajagopalan, Independent
Ad Tange, Lloyd’s Register
Sadi Ozturk, Maersk Drilling
Nishanth Samuel, Marathon Oil
Ian McManus, Mubadala Petroleum Thailand Ltd.
Kirk T. Atkinson, Noble Corp.
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Guillaume Plessis, NOV Wellbore Technologies
Steve McBride, Parami Energy
Tom Norrdell, Pelican Oil Tools
Adrin Nasir, Petrofac Malaysia
Gary Ong Swee Hong, PETRONAS Carigali Sdn. Bhd.
Suresh Kumar, Progrowth Energy Pvt. Ltd.
Chansin Kaewwetchawong, PTTEP
Pramote Phloi-montri, PTTEP
Sunchai Pongorapin, PTTEP
Suwin Sompopsart, PTTEP
Wiwat Pattarachupong, PTTEP
Chatchai Kongdachudomkul, PTTEP
Kamolchai Pattanapong, PTTEP
Nitipong Kongpat, PTTEP
Sarit Rattanachan, PTTEP
Leongsakol Chinarat, PTTEP
Bot Viet Nguyen, PVD Well Services Co.
Ben Gedge, RMES & PV Drilling Well Services Co.
Helio Santos, Safekick
Louay Louis Laham, Sapura Energy
Tomaso Ceccarelli, Schlumberger
Salim Taoutaou, Schlumberger
Robert Kerr, Scientific Drilling International
Rishi Srivastava, Shelf Drilling
Jan Brakel, Shell
Wade A. Rebardi, Superior Energy Services
Keith Rae, TAM International Asia Pacific Pty. Ltd.
Basker Murugappan, TAQA
Koji Sakura, TenarisNKKTubes
Izwan Megat, UMW Oil & Gas
Robert Ziegler, Weatherford
Attendee Survey

Tell us about your IADC/SPE Asia Pacific Drilling Technology Conference and Exhibition experience

Your feedback is important to us!

Three easy ways to submit the survey:

1. Online – Visit http://go.spe.org/SPEapdt18 or scan the survey code with your mobile device
2. SPE Booth
3. ePoster Stations
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Conference Medical Provider
LEVEL 22

Lotus Suite 12
Technical Sessions

Lotus Suite 5 & 6
Technical Sessions

Lotus Suite 7
Technical Sessions
Panel Sessions

Media Room
Conference HQ &
Author/Speaker
Check-In

Hall A1
Exhibition
Knowledge Sharing ePosters Sessions
Networking Luncheons
Welcome Reception (Monday, 27 Aug)

LEVEL 23

World Ballroom
Opening Session
Executive Plenary Session

WORLD BALLROOM
BCC1
Medical Room

Registration

EXHIBITION HALL A1

M1
Training Course
(Thursday, 30 Aug)
Schedule of Events

Sunday, 26 August

0900 – 1800 hours  Registration  Pre-Function Area, Level 22
0900 – 1800 hours  Exhibitor Move-In  Exhibition Hall A1, Level 22
0900 – 1700 hours  Conference Headquarters / Speaker and Author Check-In  Media Room, Level 22

Monday, 27 August

0730 – 1930 hours  Registration  Pre-Function Area, Level 22
0730 – 1800 hours  Conference Headquarters / Speaker and Author Check-In  Media Room, Level 22
0900 – 1000 hours  Opening Session  World Ballroom, Level 23
1000 – 1930 hours  Exhibition  Exhibition Hall A1, Level 22
1000 – 1100 hours  Coffee Break  Exhibition Hall A1, Level 22
1100 – 1230 hours  Executive Plenary Session  World Ballroom, Level 23
1230 – 1400 hours  Networking Luncheon  Exhibition Hall A1, Level 22
1315 – 1345 hours  Knowledge Sharing ePoster Session 1  Exhibition Hall A1, Level 22
1400 – 1530 hours  Technical Session 1: Well Design  Lotus Suite 7, Level 22
1400 – 1530 hours  Technical Session 2: Drilling and Related Production Enhancement  Lotus Suite 5-6, Level 22
1400 – 1530 hours  Technical Session 3: Performance and Profitability  Lotus Suite 12, Level 22
1530 – 1600 hours  Coffee Break  Exhibition Hall A1, Level 22
1530 – 1600 hours  Knowledge Sharing ePoster Session 2  Exhibition Hall A1, Level 22
1600 – 1730 hours  Technical Session 4: Tubulars  Lotus Suite 7, Level 22
1600 – 1730 hours  Technical Session 5: Well Evaluation  Lotus Suite 5-6, Level 22
1600 – 1730 hours  Technical Session 6: Optimisation-MPD  Lotus Suite 12, Level 22
1730 – 1900 hours  Welcome Reception hosted by PTTEP  Exhibition Hall A1, Level 22

Tuesday, 28 August

0730 – 1800 hours  Registration  Pre-Function Area, Level 22
0730 – 1800 hours  Conference Headquarters / Speaker and Author Check-In  Media Room, Level 22
0900 – 1030 hours  Technical Session 7: High-Temperature and Downhole Tools  Lotus Suite 7, Level 22
0900 – 1030 hours  Technical Session 8: Field Development  Lotus Suite 5-6, Level 22
0900 – 1030 hours  Technical Session 9: Fluids and Cementing  Lotus Suite 12, Level 22
1000 – 1800 hours  Exhibition  Exhibition Hall A1, Level 22
1030 – 1100 hours  Coffee Break  Exhibition Hall A1, Level 22
## Schedule of Events

### Tuesday, 28 August

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>1030 – 1100 hours</td>
<td>Knowledge Sharing ePoster Session 3</td>
<td>Exhibition Hall A1, Level 22</td>
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<tr>
<td>1100 – 1230 hours</td>
<td>Panel Session 1: What’s Next in the Future for Drilling Rigs</td>
<td>Lotus Suite 7, Level 22</td>
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<tr>
<td>1230 – 1400 hours</td>
<td>Networking Luncheon</td>
<td>Exhibition Hall A1, Level 22</td>
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<tr>
<td>1315 – 1345 hours</td>
<td>Knowledge Sharing ePoster Session 4</td>
<td>Exhibition Hall A1, Level 22</td>
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<tr>
<td>1400 – 1530 hours</td>
<td>Technical Session 10: Bit / BHA / Geomechanics</td>
<td>Lotus Suite 7, Level 22</td>
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<tr>
<td>1400 – 1530 hours</td>
<td>Technical Session 11: Case Studies - Production Enhancement</td>
<td>Lotus Suite 5-6, Level 22</td>
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<tr>
<td>1400 – 1530 hours</td>
<td>Technical Session 12: New Technologies - Drilling Completions and Production</td>
<td>Lotus Suite 12, Level 22</td>
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<tr>
<td>1530 – 1600 hours</td>
<td>Coffee Break</td>
<td>Exhibition Hall A1, Level 22</td>
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<tr>
<td>1530 – 1600 hours</td>
<td>Knowledge Sharing ePoster Session 5</td>
<td>Exhibition Hall A1, Level 22</td>
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<tr>
<td>1600 – 1730 hours</td>
<td>Panel Session 2: Enhancing Business Partnerships</td>
<td>Lotus Suite 7, Level 22</td>
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### Wednesday, 29 August

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<thead>
<tr>
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<tr>
<td>0730 – 1400 hours</td>
<td>Registration</td>
<td>Pre-Function Area, Level 22</td>
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<td>0730 – 1400 hours</td>
<td>Conference Headquarters / Speaker and Author Check-In</td>
<td>Media Room, Level 22</td>
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<tr>
<td>0900 – 1030 hours</td>
<td>Technical Session 13: Case Studies - Directional Drilling</td>
<td>Lotus Suite 7, Level 22</td>
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<tr>
<td>0900 – 1030 hours</td>
<td>Technical Session 14: Well Completion and Stimulation</td>
<td>Lotus Suite 5-6, Level 22</td>
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<tr>
<td>0900 – 1030 hours</td>
<td>Technical Session 15: Offshore, Deepwater and Subsea</td>
<td>Lotus Suite 12, Level 22</td>
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<td>1000 – 1400 hours</td>
<td>Exhibition</td>
<td>Exhibition Hall A1, Level 22</td>
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<td>1030 – 1100 hours</td>
<td>Coffee Break</td>
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<td>1030 – 1100 hours</td>
<td>Knowledge Sharing ePoster Session 6</td>
<td>Exhibition Hall A1, Level 22</td>
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<tr>
<td>1100 – 1230 hours</td>
<td>Panel Session 3: Drilling Technologies to Increase Efficiency and Improve Recovery</td>
<td>Lotus Suite 7, Level 22</td>
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<td>1230 – 1400 hours</td>
<td>Networking Luncheon</td>
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### Thursday, 30 August

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<tbody>
<tr>
<td>0900 – 1700 hours</td>
<td>Training Course: Data Analytics for Drilling Optimisation</td>
<td>M1 Meeting Room, Level 23</td>
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### Conference Programme Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Lotus Suite 7</th>
<th>Lotus Suite 5 &amp; 6</th>
<th>Lotus Suite 12</th>
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<td>0900-1000 hours</td>
<td>Opening Session - World Ballroom, Level 23</td>
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<td>Knowledge Sharing ePoster Session 1 - Exhibition Hall A1, Level 22</td>
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<td>Panel Session 1: What’s Next in the Future for Drilling Rigs - Lotus Suite 7, Level 22</td>
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General Information

Venue
Bangkok Convention Centre at CentralWorld
999/99 Rama I Road, Pathumwan
Bangkok 10330, Thailand
Tel +66 (0) 2 100 1234

Event Headquarters
Media Room, Level 22
Bangkok Convention Centre at CentralWorld
999/99 Rama I Road, Pathumwan
Bangkok 10330, Thailand
Tel: +66 (0) 2 100 6287

Speaker/Author Check-In Room
Speakers, moderators, presenting authors and session chairs are required to report to the Author Check-In Room at Media Room, Level 22, Bangkok Convention Centre at CentralWorld to load/review their PowerPoint slides. Changes to presentation slides will not be accepted less than four hours prior to the session.

Speakers, moderators, presenting authors and session chairs must report to their assigned session rooms 30 minutes before the session begins.

Badge Collection
Conference and exhibition badges are required for admission into the event and must be worn at all times. Badges are non-transferable. Use of a badge by a person not named on the badge is grounds for confiscation.

Badges can be collected at the Registration Counters located at the Pre-Function Area, Level 22, Bangkok Convention Centre at CentralWorld during the following times:
• Sunday, 26 August: 0900-1800 hours
• Monday, 27 August: 0730-1930 hours
• Tuesday, 28 August: 0730-1800 hours
• Wednesday, 29 August: 0730-1400 hours

Digital Proceedings
Digital proceedings are available for collection at the SPE booth in the exhibition hall (booth D12).

To purchase the proceedings, please go to the Registration Counter located at the Pre-Function Area, Level 22, Bangkok Convention Centre at CentralWorld.

Exhibition Hours
The exhibition / technical showcase is open to all attendees at the following times:
• Monday, 27 August: 1000-1930 hours
• Tuesday, 28 August: 1000-1800 hours
• Wednesday, 29 August: 1000-1400 hours
General Information

Lost and Found
Lost and found items will be placed at Event Headquarters located at Media Room, Level 22, Bangkok Convention Centre at CentralWorld.

First Aid
First aid and medical assistance is available at BCC1, Level 22, Bangkok Convention Centre at CentralWorld from Saturday, 25 August.

Business Centre
Business Centre, Level 23, Centara Grand & Bangkok Convention Centre at CentralWorld.

Safety and Security
The safety and security of our event attendees are of utmost importance. Please be aware of and observe the following:

- Conference and exhibition badges must be worn at all times while at the event venue. Use of a badge by a person not named on the badge is grounds for confiscation.
- If you lose your badge, please return to the registration counter to obtain a replacement.
- No one under the age of 15 is permitted in the exhibition halls.
- Be aware of your surroundings, remain alert and be vigilant.
- Should you observe any suspicious packages or behaviour, please report to event/venue staff immediately.
- Due to the popularity of some session topics, it is possible for overcrowding to occur in a session or meeting room. Should this occur, we must comply with policies regarding room capacity and limit admittance to a room that is at capacity. Please make plans to arrive early for sessions that you have a strong interest in attending.
- Please remember to stay hydrated throughout the event.
- In the event of an emergency, SPE and/or Bangkok Convention Centre staff will provide attendees with the necessary information and instructions.

Photography and Videography
All conference sessions and the exhibition/technical showcase are protected by international copyright laws.

Photography and video/audio recording of any kind in conference sessions and the exhibition are prohibited without prior written permission by SPE.

Mobile Phone
As a courtesy to the speakers and your fellow attendees, please turn off all mobile phones during meetings and sessions.

Alcohol
We recognise that legitimate serving of alcohol beverages in the process of conducting business and social activities is acceptable. However, we also recognise that the use and consumption of alcohol carries the requirement for all attendees to consume these beverages responsibly and in keeping with our professional code of ethics and conduct. We strongly oppose the abuse and misuse of alcohol.
Opening Session

Monday, 27 August | 0900 – 1000 hours
World Ballroom, Level 23

Speakers

Dr. Kurujit Nakornthap
Co-chairman (Thailand) of the Malaysia-Thailand Joint Authority (MTJA)

Dr. Somporn Vongvuthipornchai
Chief Executive Officer, PTTEP

Darcy Spady
2018 President, Society of Petroleum Engineers (SPE) and Managing Director, Broadview Energy Asset Management

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

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PTTEP
Executive Plenary Session

Reshaping for a Smart and Sustainable Future

Monday, 27 August | 1100-1230 hours World Ballroom, Level 23

Moderator
Thom Payne
Director, Westwood
Global Energy Group

Speakers
Brad Middleton
Managing Director, Chevron Asia South Ltd.

Marcus Chew
CEO, Energy Drilling

Chayong Borisuitsawat
Acting Executive Vice President, Operations Support Group, PTTEP

Raphael Siri
CEO, Sapura Drilling

David Mullen
CEO, Shelf Drilling

Etienne Roux
President, Drilling and Evaluation, Weatherford

Since the last event held in Thailand in 2014, the industry has altered significantly. Evolving challenges such as oil price volatility, the “big crew change”, and digital disruption, require new approaches in applying business models and technologies to achieve cost and operational efficiencies, whilst meeting stakeholders’ expectations to preserve the core business and, at the same time, stimulate progress by exploring challenges, successes, and strategies to create a fit-for-purpose set of tools, systems, models, technologies and capabilities that will reshape the industry for a smart and sustainable future.
Panel Sessions

What's Next in the Future for Drilling Rigs?

Tuesday, 28 August | 1100-1230 hours

Lotus Suite 7, Level 22

Moderators

Eric Wagner
General Manager,
Global Upstream,
Drilling &
Completions,
Chevron

Kirk Atkinson
Marketing &
Contracts Manager -
Far East & Oceania,
Noble Corp.

Speakers

Teo Yun Yun
Principal Analyst
(Rigs, Asia Pacific),
IHS Markit

David Reid
Chief Marketing
Officer, National
Oilwell Varco

Waldemar Szemat
Drilling Business
Development
Manager - Eastern
Hemisphere,
Schlumberger

William Gu
Vice President
and Head,
SembCorp
Marine Rigs &
Floaters

Johan Surewaard
Vice President
Wells Integrated
Gas, Shell

As the petroleum industry recovers from market lows and business recovers, we ask ourselves, what is next? This panel session shall discuss these and other appropriate topics including:

- Rig utilisation forecasts
- Regions for future growth
- Rig types for expansion: Land, shelf, deep or ultra-deep water
- Rig retirements, cold vs warm stacking and reactivation
- Shipyard activity: Upgrades vs new build construction
- New technologies in rig components or service delivery
- Data management and work processes
- Partnerships between drilling contractors and drilling service providers

The industry’s needs to position for recovery and forecasting is an integral component in the planning for next phase. Identifying both type of rig and regions for growth will advance the planning for the next stage of activity.

Drilling rigs will continue to be retired, however, many others will return from stacking to active operation. There is opportunity to support the industry’s recovery by introducing and applying new technology, data management, work processes and operating philosophies. This includes adding new rig components through new builds and rig upgrades as well as rig and service provider alliances to offer streamlined solutions. We need to be positioned for the evolution of our drilling industry.
Enhancing Business Partnerships

Tuesday, 28 August | 1600-1730 hours  Lotus Suite 7, Level 22

Moderators

Pasuk Eagark  
Senior Vice President, Well Engineering and Operations, PTTEP

Suresh Kumar  
CEO - Oil & Gas, Progrowth Energy

Speakers

Supat Napanoparatkaew  
Director of Facilities Engineering Group, Department of Mineral Fuels

Ahmed Ibrahim  
Vice President, Digital Sales - APAC, Baker Hughes, a GE company

Nasir Haji Darman  
Chief Technology Officer, PETRONAS

Azhar Abdullah  
Managing Director, Malaysia, Schlumberger

Kurt Hoffman  
Executive Vice President & Chief Operating Officer, Shelf Drilling

Long term, high risk E&P investment demands a fair return. Our industry has to achieve a reasonable margin in producing hydrocarbons despite the current oil price to sustain growth. To succeed in this effort, the industry must recognise and exploit the crucial role digital transformation plays.

Evolving digital transformation is widening boundaries in reshaping E&P methodologies to prepare for big crew change and future resource optimisation. We should guide digital transformation by promoting its application to achieve continuous efficiencies in mature fields as this is where big data is. Big data presents outstanding opportunities for digitalisation, such as automating entire work processes of repetitive activities and optimise resources, where there is less experienced personnel.

Big data needs to be a long-term focus in optimising mature fields production and operations. It is crucial to remain open to innovation and form smart collaborations to stimulate progress for more step-change for full value chain optimisation. In addition, automation capability is essential as it enable us to plan ahead or perform heavy-front-end, loading work that not only ensures that we are efficiently improving existing asset values, but also provide sufficient lead time to effectively manage external factors, such as regulatory changes and fiscal regime, engaging other stakeholders as well as efficiently structure contract strategies. The oil and gas industry has already started to implement digital technologies and solutions across E&P workflows. Steps include more effective data analytics, utilising artificial intelligence and predictive software in all phases of field management, and maximising asset values of a field.

Fiscal policies need to be restructured to fit current reality. Regulators and operators should focus on standardising well design and modular facility for field development based on offset data while restricting detailed engineering to frontier areas with limited analogues. More responsibility with limited experience mandates the industry to have adequate digital guidance, stringent personnel training and certification to ensure efficiency, quality and HSE preservation.

Traditional E&P contracting of specialist service companies, supervised by discipline experts and layers of project managers has to undergo a paradigm shift towards greater delegation of risk and responsibility within agreed contract boundaries. A lead contractor of a consortium can deliver bundled services or small E&P projects to pre-set goals, costs or incentives. An integrated service provider should be encouraged to operate service intensive projects, such as, marginal and late life fields on pre-set return basis.
Panel Sessions

Drilling Technologies to Increase Efficiency and Improve Recovery

Wednesday, 29 August | 1100-1230 hours
Lotus Suite 7, Level 22

Moderators

Ben Gedge, MPD, Drilling & Well Services Specialist, RMES & PV Drilling & Well Services

Bob Kerr, Director CHS, Scientific Drilling

Speakers

Thomas Fredric Young
CEO, Al Gahtani Management Services

Wade Davis
Project Manager, Enhanced Drilling Solutions Co., Ltd.

Luis Quintero
Chief Advisor - Production Management, Halliburton

Toby Dixon
Senior Vice President- Drilling & Evaluation, Halliburton

Fauzi Abbas
Head of Drilling, Vestigo Petroleum

In the current dynamic environment, improvements in drilling technologies to increase efficiency and/or improve ultimately recovery, are essential for the sustainability and viability of the industry.

Technological innovations and innovative management techniques are very important to overcome the current challenges for new project feasibility. Without some new techniques in drilling and completions to reduce development costs and improve ultimate recovery, many projects will not pass their economic feasibility hurdle. R&D has been severely reduced by operators and service companies through this downturn, so a new paradigm of working together or looking for ideas and concepts that is outside our current technology envelope, may be needed. Lowering the cost base of new developments, and or, significantly improving the recovery, are necessary if not vital, to develop many now marginal and even more sizable fields.

How can collaboration in the oil and gas industry between NOC, IOC, Drilling Contractors and Service Companies be fostered, so as to enable new technologies, practices and key lessons learned in previous periods of low oil prices, to come to the market, be tested and implemented successfully.

This panel assembles experts with extensive experience and a range of diverse expertise to discuss issues, new technologies, ideas and practices for reducing costs in drilling and completion, as well as any techniques, that might significantly enhance recovery. This will enable new and now many more fields, that have joined the ranks of marginal status, become viable developments.
## Technical Programme

### Monday, 27 August

#### Technical Session 01: Well Design

**Session Chairs:** Darryl Eisler, *Baker Hughes, a GE company*; Habil Akram Rosland, *Halliburton*

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<tr>
<th>Time</th>
<th>Paper #</th>
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</table>
| 1400  | 191071  | Successfully Drilling an Extremely Complex ERD, HPHT Exploration Well  
| 1420  | 191064  | Efficiency Improvement and Effective Sand Control Completion Unit by Drilling Rig in Zawtika M9 Development Field  
V. Benjaboonyazit, P. Chatpomtanadul, K. Intrachai, M. Follett, M.G. Rutland, T. Kreethapon, and C. Kongdachudomkul, PTTEP |
| 1440  | 190979  | Using Simultaneous Gyro Measurements to Determine Orientation of Magnetic Ranging Instruments in a Vertical Environment  
G. Rassadkin, D. Ridgway, and C.J. Moss, Scientific Drilling International |
| 1500  | 191019  | Design Optimisation from 3 Strings to 2 Strings for Deep Wells in Sirikit Field  
P. Tangkaprasert and S. Rattanachan, PTTEP; P. Watchalapong, Schlumberger Overseas S.A. |

#### Technical Session 02: Drilling and Related Production Enhancement

**Session Chair:** Ben Gedge, *RMES & PV Drilling & Well Services Co.*

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| 1400  | 191087  | Innovative Solution for High Temperature High Gas Rate Carbonate Well  
| 1420  | 191006  | Application of Velocity String to Improve Productivity from Bottom Pores after Hydraulic Fracturing in Multilayered Low Permeability Reservoir  
S. Anand, N. Johri, K. Chandak, R. Vijay, S. Tiwari, A. Bohra, U. Vijayvargiya, and J. Khemchandani, Cairn Oil & Gas; I. Singh and A. Agarwal, Schlumberger |
| 1440  | 191066  | Significant Operation Efficiency Improvement of Cased Hole Gravel Pack Completion by Implementing Factory Completion Strategy  
A. Choodeesh and M.G. Rutland, PTTEP; C.W.G. Grant, T. Kreethapon, and C. Phasook, PTTEP |
| 1500  | 190975  | A Sustainable Approach to Production Increase in the Zawtika Field: Sand Control Assisted with Hydrofluoric Acidising  
C.W.G. Grant, PTTEP; A. Choodeesh, PTTEP; C. Ramirez, A. Nusyirwan, and D. Cahyanto Santos, Halliburton |
# Technical Programme

**Monday, 27 August**

### Technical Session 03: Performance and Profitability

**Session Chairs:** Thomas Fredric Young, Al Qahtani Management Services; Jan Brakel, Shell

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| 1400   | 191038  | Enhancing Technology Development Process through Purpose-Built Testing and Training Facilities  
A. Johnson, J. Fraczek, and B. Anderson, AFGlobal Corp. |
| 1420   | 191058  | Achieving Repeatability and Reproducibility in Competency-Based Training  
H. Lau, National U. of Singapore; M. Pang, Consultant |
| 1440   | 191025  | Achieving Performance Excellence through Integrated Efficiency Workflow Services  
A. Soong, M.F. Arriffin, H.A. Rosland, and B. Ismail, Halliburton |
| 1500   | 191086  | Process, People and Technology: Synergy Leads to Performance Improvement, a Case from South Iraq  
M. Mee and A. Dementyev, Schlumberger |

### Technical Session 04: Tubulars

**Session Chairs:** Habil Akram Rosland, Halliburton; Shankar Bhukya, NOV

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| 1600   | 191032  | The Triaxial Limit and Safety Factor of an Anisotropic CRA Tubular  
| 1620   | 190968  | Focus on Reducing Cost of Ownership Drives the Development of the 4th Generation Drill Pipe Connection Design  
G. Plessis, A. Muradov, and D. Morgan, NOV; J. Brock and A. Primeaux, Workstrings International |
| 1640   | 191061  | Casing Drilling Technology as the Solution for Severe Lost Circulation: LSE Casing Drilling Pilot Project Case Study  
S.F. Abdilla, SKK Migas; A.M. Harahap, H. Yuristianto, and A. Muslim, Pertamina EP; B. Noviasta, H.M. Falhum, and K. Astasari, Schlumberger |
| 1700   | 190981  | Analysis for Selection of Tubular Connections for HPHT Gas Well Completion  
Technical Programme

Monday, 27 August | 1600-1730 hours | Lotus Suite 5 & 6, Level 22

Technical Session 05: Well Evaluation
Session Chairs: Chansin Kaewwetchawong, PTTEP; Bob Kerr, Scientific Drilling International; Robert Ziegler, Weatherford

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<td>1600</td>
<td>191011</td>
<td>Defining Downhole Contribution/Injection Profile in Multi-Zone Completion by Temperature and Spectral Noise Logging</td>
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<td>1620</td>
<td>191095</td>
<td>Cost and Operation Optimisation for Downhole Tractor Conveyance for Perforating in ERD Wells by Using Wireline Multistage Pressure Deployment System</td>
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<td>1640</td>
<td>191093</td>
<td>A Quantitative Approach to Forecast Well Productivity while Drilling</td>
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<td>M. Li, CNOOC; G. Lei, Baker Hughes, a GE company; M. Zhang, CNOOC; S.B. Coskun, R.C. Sy, and N.P. Hardikar, Baker Hughes, a GE company</td>
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<td>1700</td>
<td>191040</td>
<td>Evaluation of Relative Permeability Modifiers in Sand-Control Applications: Case History, Results, and Improvements</td>
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<td>A. Choodeh, C.W.G. Grant, and K. Wuthicharn, PTTEP International Ltd. (Yangon); C. Ramirez, A. Nusyirwan, and D.C. Santoso, Halliburton</td>
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Monday, 27 August | 1600-1730 hours | Lotus Suite 12, Level 22

Technical Session 06: Optimisation-MPD
Session Chairs: Sharat Chandrasekhar, Blade Energy; Bot Nguyen Viet, PVD Well Services; Ben Gedge, RMES & PV Drilling & Well Services Co.

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<tr>
<td>1600</td>
<td>191074</td>
<td>Using Drill Pipe Connection Continuous Circulation Technology on a Geothermal Drilling Project in Indonesia to Reduce Stuck Pipe Events</td>
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<td>H. Pinkstone, T. McCluskey, and A. MacGregor, AFGlobal Corp.; S. Scaglierini, Schlumberger; Y. Indrinanto, Star Energy</td>
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<tr>
<td>1620</td>
<td>190991</td>
<td>A Precise MPD Technology to Reduce Risk in Drilling of Fractured Cavernous Carbonate with Narrow Pressure Margins</td>
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<td>1640</td>
<td>191099</td>
<td>Complete MPD Rigs: Is this the Future?</td>
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<td>B. Gedge, Regional Marine &amp; Engineering – PVD Well Service Co. Ltd.; N. Yaw, D. Postel, J. Mardon, and H. Frohlich, Regional Marine &amp; Engineering, Singapore; N.V. Bot, N.T. Ban, and V.H. Duc, PVD Well Service Co. Ltd.; B. Barbee, Ensco; H. Santos, Safekick; D. Gouldin, Seadrill</td>
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<td>1700</td>
<td>190997</td>
<td>Near Real-Time Monitoring of PDC Bit Condition and Associated NPT Mitigation Using Online Alkene Detection</td>
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<td>M. Regan, E. Carcione, and A. Martocchia, Geolog International</td>
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## Technical Programme

### Technical Session 07: High-Temperature and Downhole Tools

**Session Chairs:** Steve McBride, Parami Energy; Kamolchai Pattanapong, PTTEP

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<td>0920</td>
<td>191105</td>
<td>Effect of Synthesized AMPS-g-Clay/CuO NanoComposite on WBDFS for Challenging Formations</td>
<td>N. Kumar, A. Kumar, and S. Kumar, DIT U.</td>
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<td>0940</td>
<td>191080</td>
<td>Development of Modified Rhizophora spp. Tannin Biopolymer Additive in Drilling Fluid System for High Temperature Well Applications</td>
<td>N.A. Ghazali, U. of Tokyo; S. Naganawa, Akita U.; Y. Masuda, U. of Tokyo</td>
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<td>1000</td>
<td>191084</td>
<td>Overcoming the Challenges during Cementing Spacer Design for Deep Deviated HPHT Wells Containing Heavy Oil Based Muds</td>
<td>A. Brandl, A.A. Doan, and A.E. Alegria, Baker Hughes, a GE company</td>
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### Technical Session 08: Field Development

**Session Chairs:** Thomas Fredric Young, Al Qahtani Management Services; Tomaso Ceccarelli, Schlumberger

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<tr>
<td>0940</td>
<td>191091</td>
<td>Driving Efficiencies in Well Intervention Operations</td>
<td>Y.T. Yong, Y. Azizan, and A. Leong, Halliburton; Y. Song and R.A. Abdul Rani, Shell</td>
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<td>1000</td>
<td>191078</td>
<td>Assessing the Impacts of Groundwater Intrusion to Production Efficiency and Proposing Solutions to Enhance Oil Recovery from Fractured Basement Reservoir in SuTuDen Field, Offshore Vietnam</td>
<td>X.V. Tran, Ho Chi Minh City U. of Technology.; T.V. Nguyen, Cuu Long JOC; T. Nguyen, K.X. Nguyen, N.B. Thai, and T.Q. Truong, Ho Chi Minh City U. of Technology</td>
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## Technical Programme

### Tuesday, 28 August

#### Technical Session 09: Fluids and Cementing

**Session Chairs:** Suresh Kumar, Progrowth Energy Pvt. Ltd.; Keith Rae, TAM International Asia Pacific Pty. Ltd.

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<tr>
<td>0900</td>
<td>191049</td>
<td>Innovative and Cost-Effective Invert-Emulsion Fluids for Drilling Complex Wells</td>
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<td>M. Al-Bagoury and P. Revil, Elkem</td>
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<td>0920</td>
<td>191075</td>
<td>Filter Cake Buildup in Horizontal Wells: Characterisation and Impact on Removal Operation</td>
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<td>B. Hamzaoui, A.M. Al-Moajil, S. Caliskan, and S.S. Aldarweesh, Saudi Aramco</td>
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<td>0940</td>
<td>190970</td>
<td>Zonal Isolation in Horizontal Configurations: Dynamic Cement Placement Approach Applied in Argentina, a Case Study</td>
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<td>S. Ficetti, P. Silva, and R. Revilla, Schlumberger; N. Torgau and N. Carestia, Wintershall</td>
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<td>1000</td>
<td>191062</td>
<td>Study to Evaluate the Effect of Using Expansion Materials with Cement Slurry for High-Pressure/High-Temperature Wells</td>
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<td>A.U. Shafqat, S. Taoutaou, R. Abdurrahman, A.A. Maksoud, and L. Otaremwa, Schlumberger</td>
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#### Technical Session 10: Bit / BHA / Geomechanics

**Session Chairs:** Nick Wasuthalainunt, Baker Hughes, a GE Company; Leongsakol Chinarat, PTTEP

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<tr>
<td>1400</td>
<td>191100</td>
<td>Conical Diamond Element PDC Bit as a Breakthrough to Drill Hard Geothermal Formation in Indonesia</td>
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<td>F. Gunawan and W. Krisnanto, Pertamina Geothermal Energy; M.R. Yoan Mardiana, B. Noviasta, and H.B. Febrriarto, Schlumberger</td>
</tr>
<tr>
<td>1420</td>
<td>191045</td>
<td>A Successful High-Ratio Hole Opening Utilising a Dual Underreamer Saved Drilling Time in a Shale Gas Exploration Well</td>
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<td>1440</td>
<td>191046</td>
<td>Experimental Study of Frictional Pressure Loss for Eccentric Drillpipe in Horizontal Wells</td>
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<td>M. Khatibi, E. Wiktor, D. Sui, and R.W. Time, U. of Stavanger</td>
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<td>1500</td>
<td>191096</td>
<td>Step Change in BHA Reliability and Performance Due to Utilisation of Downhole Drilling Dynamics Services</td>
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<td>H. Reckmann, A. Hohl, H. Oueslati, and O. Akimov, Baker Hughes, a GE Company</td>
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## Technical Programme

### Technical Session 11: Case Studies - Production Enhancement

**Session Chairs:** Feng Gui, *Baker Hughes, a GE company*; Wiwat Pattarachupong, *PTTEP*; Basker Murugappan, *TAQA*

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| 1400   | 190974  | Non-Portland Cement Slurry Development and Application for Ultrahigh-Temperature Geothermal Well with Supercritical Conditions  
G. Di Martino and A. Ruch, Halliburton |
| 1420   | 190992  | Drilling and Acidising Sandstone Stringers—Sludge Characterisation and Acid Interactions with Rock Minerals: Integrated Geochemical and Engineering Techniques  
B.I. Ghassal, A.M. Al Moajil, S. Abdelbaqi, and A. Al Rustum, Saudi Aramco |
| 1440   | 191114  | Fracture Treatment Design in the Lower Miocene Reservoir, Offshore Vietnam  
T.H. Nguyen, PetroVietnam U. |
| 1500   | 191079  | When to Tolerate Bad Cementing for Hydraulic Fracturing Job  
S. Suprihono and S. Belhaj, Medco Energi |

### Technical Session 12: New Technologies - Drilling Completions and Production

**Session Chairs:** Henry Pinkstone, *AFGlobal*; Suwin Sompopsatr, *PTTEP*; Jan Brakel, *Shell*

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| 1400   | 191031  | Intelligent Completions First Implementation of Injector Multi-Zones – Injectivity Optimisation and Efficiency for IOR Integrated Operation  
| 1420   | 191027  | Fracture Optimisation Orientated Geosteering within a “Fracable Window” can Improve Production Performance  
Y. Yao and N. Zhang, Baker Hughes, a GE company; Q. Li, Y. Yang, J. Zheng, M. Chen, L. Yang, H. Zhou, and Z. Zhang, Changning Shale Gas Co. PetroChina |
| 1440   | 191015  | Rig Time Optimisation and Risk Mitigation Utilising through Drillpipe Logging Technique with Slim Wireline Logging Suite  
H. Ngo, P. Chommali, T. Charucharana, S. Rattanachan, K. Ung-Aram, P. Tangkaprasart and C. Thiangtham, PTTEP; V. Pinprayong, Weatherford Wireline Services |
| 1500   | 191102  | The First CT Fiber-Optic Digital Implementation in Asia Pacific to Support Real-Time Perforation Depth Correlations and Enhance Wellbore Cleanout Efficiency in Horizontal Well, Thailand  
Technical Programme

Wednesday, 29 August | 0900-1030 hours | Lotus Suite 7, Level 22

Technical Session 13: Case Studies - Directional Drilling

Session Chairs: Muhammad Faris Arriffin, Halliburton; Sarit Rattanachan, PTTEP

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<tr>
<td>0940</td>
<td>190993</td>
<td>Geosteering in a Complex Deepwater Reservoir in the Niger Delta C. Ndokwu, N. Foekema, and V. Okowi, Baker Hughes a GE company; O. Olagundoye, N. Umoren, A. Delpeint, O. Ndefo, and A. Agbejule, Total Upstream Companies Nigeria; O. Jeje, Petrobras Nigeria</td>
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<tr>
<td>1000</td>
<td>191013</td>
<td>Successful Snubbing Application Performed Underbalanced Fishing of Parted Coiled Tubing in Live High-Pressure Well: Offshore Vietnam R. Wattanasuwankorn, T. Daohmareeyor, K. Kritsanaphak, I. Pathmanathan, and J. Bohorquez, Halliburton</td>
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Wednesday, 29 August | 0900-1030 hours | Lotus Suite 5 & 6, Level 22

Technical Session 14: Well Completion and Stimulation

Session Chairs: Feng Gui, Baker Hughes, a GE company; Tomaso Ceccarelli, Schlumberger; Keith Rae, TAM International Asia Pacific Pty. Ltd.

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<td>0920</td>
<td>191001</td>
<td>Fracture Packing in Previously Gravel-Packed Well Using Single-Trip Multizone System J. Deng, Y. Ma, and M. Zhang, CNOOC, Tianjin Branch; J. Qian and C. Fang, Halliburton; Q. Wang and X. Wang, formerly Halliburton</td>
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<td>1000</td>
<td>191026</td>
<td>Optimised Diversion System Applied in Stimulation Treatments in a Highly Naturally Fractured Carbonate Formation: Successful Case Histories C. Ramirez, K.R. Campos, and A.D. Gonzalez, Halliburton</td>
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## Technical Programme

### Technical Session 15: Offshore, Deepwater and Subsea

**Session Chairs:** Guillaume Plessis, NOV Wellbore Technologies; Koji Sakura, TenarisNKTubes

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<td>Performance Improvement from Drilling Control Systems Alarm Management and Analytics&lt;br&gt;C. Goetz, Kingston Systems LLC</td>
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<td>0920</td>
<td>190969</td>
<td>Well Control for Offshore High-Pressure/High-Temperature Highly Deviated Gas Wells Drilling: How to Determine the Kick Tolerance?&lt;br&gt;X. Chen, J. Yang, and D. Gao, China U. of Petroleum, Beijing; Y. Huang, Y. Li, M. Luo, and W. Li, CNOOC Ltd., Zhanjiang Branch</td>
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Knowledge Sharing ePosters

During the ePoster session, presenters will deliver their presentations in an informal setting and facilitate direct discussions with attendees 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.

### Monday, 27 August

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<tr>
<td>1530</td>
<td>191024</td>
<td>Critical Casing Points: Identification of Najmah Top and Sublayers with Wellsite Inorganic Geochemistry in Kuwait Carbonate Reservoir J. Dashti, M. Al-Awadi, and M. Moshref, Kuwait Oil Co.; A. Shoeibi, A. Pozzi, and J. Estarabadi, Geolog International (Alternate Paper in Technical Session 01)</td>
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<td>1530</td>
<td>190989</td>
<td>CwD - Enables for Successful Extended Reach Drilling. First Time with 9 5/8” Casing at High Angle M.S. Shahrul Amar and M.A. Za’ba, Schlumberger; A. Liew, Petrofac (Alternate Paper in Technical Session 01)</td>
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## Knowledge Sharing ePosters

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<td>1315</td>
<td>190998</td>
<td>High Challenging Tight Oil Development by Integrating Innovative Reservoir Boundary Detection Technology into High Efficiency Horizontal Drilling Campaign in West China J. Zhang, C. Zhi, J. Zhu, and Y. Ye. PetroChina XOC; T. Li, F. Wang, Y. Wang, and S. Li. Schlumberger (Alternate Paper in Technical Session 02)</td>
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<td>1030</td>
<td>191097</td>
<td>Learning from Experience: Real-Time H2S Monitoring System Using Fuzzy ART Unsupervised Learning</td>
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<td>1530</td>
<td>190973</td>
<td>Successful UBD Application through the Full Operation Cycle of the Production Section on an Exploration Gas Well in Thailand: A Case History</td>
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<td>P. Wang, Weatherford</td>
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<td>A New Fatigue Management Workflow for BHA Integrity Risk Reduction</td>
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<td>H. Suryadi, Schlumberger</td>
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<td>W. Pattarachupong, N. Piyakunkiat, T. Ananwattanasuk, T. Sirirattanachatchawan, S. Sompopsart, and W. Toempromraj, PTTEP; D. Koseluk, D. Finley, M. Redman, and R. Wattanasuwankorn, Halliburton</td>
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<td>Minimising Excess, Mitigating Losses and Improving Cementing Job Quality along Challenging Tophole Sections by a Simplified Novel Spacer-Cement Train: Evaluation of 3 Case Histories Offshore Malaysia</td>
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<td>A. Brandl, Baker Hughes, a GE company</td>
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<td>L. Jiang, Y. Cheng, Z. Han, Q. Gao, C. Yan, and G. Wang, China U. of Petroleum (East China); H. Wang, CCC Marine Construction &amp; Development Co., Ltd.; L. Fu, Changzhou U. (Alternate Paper in Technical Session 12)</td>
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<td>Managing Losses with Controlled Mud Level Drilling</td>
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<td>Evaluation of Novel Surfactant for Acid Stimulation and EOR Treatments</td>
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<td>A.B. Omar, A. Al-Moajil, S. Al-Darweesh, and A. Al-Rustum, Saudi Aramco</td>
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<td><strong>Simultaneously Drilling and Underreaming Directional Topholes with Underreamer below Mud Motor Save a Trip in Collision-Free Operations: Offshore Sakhalin Island Case Study</strong>&lt;br&gt;R. Kasumov and I. Shakirov, Schlumberger; R. Gaisin and A. Romanov, Sakhalin Energy Investment Co. Ltd.</td>
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<td><strong>Effective Approach to Wellbore Clean Out Operation: A Case Study from Zawtika Phase 1B</strong>&lt;br&gt;A. Choodesh and M.G. Rutland, PTTEP International Ltd. (Yangon); C.W.G. Grant, PTTEP</td>
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Training Course

Data Analytics for Drilling Optimisation
Thursday, 30 August • 0900-1700 hours • M1 Meeting Room, Level 23

Course Description
In today’s world, traditional methods of drilling oil wells don’t work as much anymore. Yesterday’s practices are being superseded by a universal trend towards the extensive use of historical and real-time data to understand, learn and predict all well intervention operations. This course explores the impact of data analytics on well operations. Drawn from the presenter’s extensive experience in data analysis, it examines, in easily understandable terms, today’s data management processes targeting process improvement. The course introduces issues related to:

• Basic concepts of data management with emphasis in drilling operations
• Methods of using data as a basis for improving and optimising process control
• Achieving a common understanding of the issues involved among information technology personnel and field engineers
• A roadmap for the implementation of a drilling process improvement system
• Business Intelligence as the ultimate goal of data management processes
• Discussions about data acquisition, quality control, storage, retrieval and analyses
• Understanding concepts for operational time and trouble analyses, learning curve, technical limit and benchmarking

Course Agenda

Session 1: Basic Concepts and Data Management Technologies
This is an introductory session in which basic concepts related to data will be introduced to the course participants.
• Data management and business intelligence
• Data acquisition, storage and retrieval
• Data quality control and analysis

Session 2: Using Drilling Data
This session starts with a brief explanation about the main concepts in statistics. It will be presented all steps to perform drilling data analysis.
• Statistics: Distribution (Normal & Log Normal), P-values and Box Plot, and Monte Carlo Simulation
• Planning with offset data and its benefits
• The importance of daily operations follow up
• Drilling optimisation
• How to implement knowledge-sharing?
Session 3: Drilling Data Analytics
This session introduces drilling data analytics.
• Time and trouble analysis
• Invisible lost time analysis
• Learning curve - reporting to logistics
• Advanced drilling analysis: Planning, follow-up and technical limit
• Benchmarking operations

Session 4: Case Studies and Practical Exercises
In this session, real business cases will be presented to demonstrate how drilling operations can be improved using the concepts explained previously in the course. Participants will be able to perform some exercises related to Drilling Data Analytics.
• Case studies
• Implementing Data Analytics in the company
• Drilling data analytics: Practical exercises

Course Instructor

The founder and CEO of Genesis Petroleum Technologies, Dr. Carlos Damski, has accumulated nearly 35 years of experience in IT, including the past 18 years during which he has focused on drilling data analysis, dealing with major companies around the world. He has a PhD in Computer Science from Sydney University and has a number of technical papers published in OTC, SPE, IADC, etc. He is the author of the book “Drilling Data Vortex – Where the bits meet the bits”. The book explains in details how to use data to improve drilling activities. Dr. Damski combines an extensive experience in software technology and drilling procedures so he is in right position to model and extract business intelligence from drilling data, allowing companies to improve their drilling processes. Those are essential skills for the forthcoming Digital Drilling Engineer and data analysts. His expertise encompasses major field campaign development, from initial concepts, until the detailed plan and follow up. This closes the loop for continuous process improvement, where we plan, execute, analyse and provide feedback for future wells.
# List of Exhibitors

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Exhibitor Profiles

AIR DRILLING ASSOCIATES (ADA) – Booth D07

71A Duxton Road, Singapore 089530
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F: +65 6722 0629
E: contact@airdrilling.com
www.airdrilling.com

Air Drilling Associates (ADA) is a leading provider of Managed Pressure Drilling (MPD), Underbalanced Drilling (UBD) and Aerated Drilling services as well as compressed air and membrane nitrogen equipment for a range of applications including CTU operations, Well Clean-out, Gas Lifting, Well Stimulation, EOR and Pipeline & Process Services.

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Bumrungrad International is a Joint Commission International accredited, multi-specialty hospital located in Bangkok, Thailand. Founded in 1980, it is one of the largest private hospitals in Southeast Asia, with 580 beds and over 30 specialty centres. Bumrungrad offers state-of-the-art diagnostic, therapeutic and intensive care facilities in a one-stop medical centre.
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E: info@gaia-earth.co.uk
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Tracerco has tracer capabilities in all applications (fluid wellbore positional inflow, interwell and stimulation measurements) and can design and implement end to end projects to meet your reservoir flow measurement requirements wherever you in the world.

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