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SPE workshop

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SPE Virtual Workshop: Wells Deliverability Enhancement - Sustaining the Baseline

24–26 January 2022 | VIRTUAL [UTC+8]

Sign up before 10 December 2021 for Early Bird savings!

Who Should Attend

Professionals involved in:

- Artificial Lift Optimisation
- Automation Engineering
- Completions
- Digital/Production Optimisation
- Drilling Engineer
- ESP Manufacturers
- Flow Assurance
- Oilfield Operations
- Oilfield Strategic Analysis
- Power Generation
- Production and Asset Management
- Production Operation
- Production Technology
- Real-Time Monitoring Application
- Research and Development
- Reservoir Engineering
- Stimulation Engineer
- Well Intervention and Monitoring
- Well Operations and Optimisation

Today more than ever before, driven by uncertainties in oil price and the need to reduce wastage including emission reduction as part of energy transition initiatives, there is a much higher expectation for the upstream industry to deliver on performance and efficiencies in all aspects of our business, which includes maximising wells deliverability. Our wells form a key component of the production system value chain, generating cash for the business. Maximising delivery of hydrocarbon molecules from new or existing wells is the core business, and the act of doing so very often brings joy to petroleum engineers. However, independent analysis has shown that Production Attainability from new wells range as low as 50%. Older wells which make up more than 70% of the total globally, tend to decline over time, some at a very rapid pace, and require constant attention to restore deliverability.

In recent years we have seen the expansion of new technology application in wells, for example, the use of remotely controlled smart completions and Autonomous Inflow Control Valves (AICD) in long horizontal wells, application of innovative low-cost yet high productivity monobore completions, or the use of highly efficient coil tubing methods to enhance well productivity. Wells deliverability is further enhanced at initial completion stage or later in well life by advancements in stimulation, perforation, and artificial lift methods. Wells deliverability enhancement extends into geothermal, heavy oil and other non-conventional projects, where maximising production and injection rates while maintaining well integrity is key.

Ultimately, sustaining well deliverability in a production or injection system calls for an integrated and collaborative approach across multi-disciplinary teams. Each discipline representing the different components (or chokes) on the system, brings different expertise and viewpoints without which an optimum solution cannot be reached to enhance well deliverability. Today, we ride the digitalisation wave on surveillance and operation excellence to deliver further improvements in wells deliverability.

Session Highlights

- Panel Session - 2022 Outlook on Well Deliverability Challenges in Asia Pacific
- Fit-for-Purpose Completions Technology/Best Practices to Maximise Potential of the Well
- The Role of New Technologies and Alternative Solutions for Effective Well Intervention
- Sustaining Production and the Importance of Well Intervention as the Key Approach
- Digitalisation, Analytics, and Machine Learning to Enhance Wells Deliverability
- Integrated Business Model and Approach for Production Rejuvenation

GROUP REGISTRATIONS AVAILABLE
Contact us at apweb@spe.org to arrange your group.

go.spe.org/22WM18W

Workshop Objectives

This workshop presents a unique opportunity for participants from across operators, regulators, service companies, independent consultants, and academia to discuss the latest insights and best practices on wells deliverability enhancement. We will harness on experiences from the industry on enhancing wells deliverability in a cost-effective manner, where key enablers include digital, technology, and capability development. Participants will have the opportunity to:

- Gain insights into case studies and lessons learnt on wells deliverability enhancement
- Listen to in-depth technical presentations on the latest advancement in wells and completion for new delivery and restoration methods on existing wells, use of innovative production engineering techniques, and application of integrated digital production system optimisation
- Discuss new and upcoming technological developments
- Access different ideas and perspectives from across the industry

Bespoke, expert-led technical topics

Knowledge sharing and technical discussions

Peer-to-peer networking opportunities

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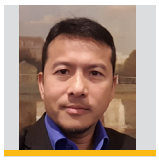

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Programme Schedule

Note: All times are Greenwich Mean Time (UTC) +8

MONDAY, 24 JANUARY 2022	
1300 - 1320 hours	**Welcome Remarks and Keynote Address**
1320 - 1430 hours	**Session 1:** Panel Session – 2022 Outlook on Well Deliverability Challenges in Asia Pacific
1430 - 1500 hours	Networking Break
1500 - 1630 hours	**Session 2:** Fit-for-Purpose Completions Technology/Best Practices to Maximize Potential of the Well
1430 - 1500 hours	Networking Break
TUESDAY, 25 JANUARY 2022	
1300 - 1430 hours	**Session 3:** The Role of New Technologies and Alternative Solutions for Effective Well Intervention
1430 - 1500 hours	Networking Break
1500 - 1630 hours	**Session 4:** Sustaining Production and the Importance of Well Intervention as the Key Approach
1630 - 1700 hours	Networking Break
WEDNESDAY, 26 JANUARY 2022	
1300 - 1430 hours	**Session 5:** Digitalisation, Analytics and Machine Learning to Enhance Wells Deliverability
1430 - 1500 hours	Networking Break
1500 - 1630 hours	**Session 6:** Integrated Business Model and Approach for Production Rejuvenation
1630 - 1700 hours	Networking Break

Register and join the sessions at your local time:

0800 hours - Doha / Kuwait City / Manama / Riyadh
0900 hours - Abu Dhabi / Dubai / Muscat
1030 hours - New Delhi
1130 hours - Yangon
1200 hours - Bangkok / Hanoi / Jakarta
1300 hours - Bandar Seri Begawan / Beijing / Kuala Lumpur / Perth / Singapore
1400 hours - Tokyo / Seoul
1500 hours - Brisbane
1530 hours - Adelaide
1800 hours - Wellington

Technical Programme Preview

MONDAY, 24 JANUARY 2021

1300 - 1320 hours **Welcome Remarks and Keynote Address**

1320 - 1430 hours **Session 1: Panel Session – 2022 Outlook on Well Deliverability Challenges in Asia Pacific**
*Session Managers: Sakti Dwitama, **PT PERTAMINA Hulu Mahakam;** Karim Shaikh, **Shell Malaysia***

One of the critical success factors in the upstream business, especially as the industry transitions to supply cleaner energy, is the efficiency in how hydrocarbon is produced from reservoirs through optimally designed wells that deliver at their potential. Higher deliverability wells mean lower overall unit development and operating costs, and more cash flow to support the energy transition.

This panel session will provide a unique opportunity to gain insights from senior leaders representing Asia Pacific regulators, operators, and service companies on our collective success in achieving well performance expectation from new and existing wells. Insights include the common trends defining success and key challenges still being faced by operators in the current era. The discussion will revolve around these topics, but is not limited to:

- The impact of new technologies in driving down costs and delivering profitable projects especially in the pandemic era
- Common well and completion types in the region and emerging themes to maximise profitability in deepwater, mature, and unconventional fields
- Common challenges faced while implementing new technology applications and improving supply chain
- Support required from regulators to provide a more enabling environment
- Initiatives to improve collaboration amongst operators to utilise learnings and further improve well deliverability outcomes

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 2: Fit for Purpose Completions Technology/Best Practices to Maximise Well Potential**
*Session Managers: Nur Azliza Mohd Fuzi, **ExxonMobil Exploration and Production Malaysia Inc.**; Andreas Seno, **Halliburton;** Amirul Azri Ahmad Nordin, **Schlumberger***

The drilling and completion of wells continue to gather strong momentum within the E&P industry. As wells become deeper, longer, and more geologically complex to recover hydrocarbon assets from more challenging rock formations, the industry demands for fit-for-purpose completion technology to improve operational efficiency, maximise production, and project economics. Well completions technology continues to evolve at a rapid pace to address various challenges, such as:

- Controlling unwanted production fluid (such as gas/water in oil producers with ICD/AICD)
- Active reservoir management and real-time surveillance with intelligent completions
- Maximised reservoir exposure and improved hydrocarbon recovery with proven multilateral technologies
- Optimise operational efficiency with single trip system in conventional and sand control completions
- Artificial lift equipment design/upgrade for conventional and unconventional wells

In essence, completions technology has evolved, where installations are done in less time and reliably produced at greater rates. This session will cover case studies and best practices to clearly demonstrate how new technologies achieved those goals to enhance wells deliverability throughout its life cycle.

1630 - 1700 hours Networking Break

Technical Programme Preview

TUESDAY, 25 JANUARY 2021

1300 - 1430 hours

Session 3: The Role of New Technologies and Alternative Solutions for Effective Well Intervention
*Session Managers: Giuseppe Ambrosi, **Halliburton;** Muhammad Bagir, **North Oil Company;** Mohamed Heikal Kasim, **SEA Hibiscus Sdn Bhd***

Optimising well intervention approaches has been a significant subject of discussion for both operators and service companies in recent years, taking into consideration the current pandemic which has created more demanding operational environment. Production sustainability remains crutial as operators continue to balance well intervention and engineering approaches with stringent well economic constraints. The industry has been giving more specific attention to the continuous evolution of smart intervention techniques, to efficiently deliver production with creative intervention approaches. These approaches include re-inventing the current well intervention techniques for higher operation efficiency, out-of-the-box intervention methodologies with current or additional resources, real-time data transmission and analysis, and remote downhole tools manipulation, equipment, and service automation.

This session will provide an overview of the latest development in efficient well intervention approaches, to either extend the current well intervention envelope or provide significant well economic gains for operators. Presentations will include case histories with actual field implementation and quantifiable results.

1430 - 1500 hours — Networking Break

1500 - 1630 hours

Session 4: Sustaining Production and the Importance of Well Intervention as the Key Approach
*Session Managers: Siti Aisyah Abdul Ghani, **PETRONAS Carigali Sdn Bhd;** Nik Ros Afira Nik Mustapha, **PETRONAS Carigali Sdn Bhd;** Thakerngchai Sangvaree, **PTTEP Sarawak Oil Limited***

Various problems can occur in a producing well that can negatively affect operations, production, and ultimately revenue generated; these may include the failure of mechanical equipment, changes in production characteristics, and plugging and increases in injection pressure. Often, a well intervention approach is required to achieve optimal production should any of these issues happen during production.

Well interventions are frequently required to repair or replace damaged completion components to restore well integrity, improve inflow performance to reduce skin, and/or to improve tubing performance by removing impediments to flow or installing artificial lift. Interventions can be a cost-effective way of slowing or even reversing a decline in well performance. The efforts to mitigate production decline and, in some cases, reverse the trend, requires not only a deeper understanding of the subsurface issues but also a comprehensive well intervention plan to sustain production.

This session will provide well intervention learnings and best practices from subject matter experts for a sustainable production lifecycle.

1630 - 1700 hours — Networking Break

WEDNESDAY, 26 JANUARY 2021

1300 - 1430 hours

Session 5: Digitalisation, Analytics, and Machine Learning to Enhance Wells Deliverability
*Session Managers: Faical Baghdadi, **PETRONAS;** Kaushik Roy, **Weatherford***

Recent years have seen significant advances in data analytics, machine learning (ML) and artificial intelligence (AI). The oil and gas industry is progressively adopting these novel solutions and applying them in various disciplines and thus far, the adoption of these digital tools has unlocked significant value. This session will showcase how operators and various industry players are leveraging data analytics and machine learning to increase well deliverability, sustain production, and reduce operational cost.

1430 - 1500 hours — Networking Break

1500 - 1630 hours

Session 6: Integrated Business Models and Approaches for Production Rejuvenation
*Session Managers: Rio Descapria, **PETRONAS Carigali Indonesia;** Khalid Ahmed, **Schlumberger***

The oil and gas industry have and will continue to face various challenges, especially in recent years where volatility, uncertainty, complexity, and ambiguity (VUCA) have become the new norm that must be faced daily.

The world's paradigm shift towards clean energy is also placing increased operational constraints on upstream players. These challenges have forced upstream players to re-look into the current business model and explore the most appropriate and integrated business models to continue to remain sustainable. One key area of advancement is in integrated asset modelling, and its application to drive integrated workflow and decisions to rejuvenate production.

Technology holds an important key in supporting the upstream sector in their business models to manage portfolio assets, ranging from green fields, brown fields, and even rejuvenating existing fields to optimise their potential value. In addition, collaboration from all stakeholders is crucial for this process to be a success, and deliver better returns on investment and expectations. This session will showcase various techniques and workflows for production rejuvenation.

Networking Break

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Sponsorship support of the event helps offset the cost of producing workshops and allows SPE to keep the attendance price within reach of operation-level individuals, those who benefit most from these technical workshops. Supporters benefit both directly and indirectly by having their names associated with a specific workshop. While SPE prohibits any type of commercialism within the virtual event platform itself, SPE recognises that supporting companies offer valuable information to attendees outside the technical sessions.

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Sponsorship packages are offered on a first-come, first-served basis. Please contact SPE to enquire and verify the availability of categories.

Entitlements	Principal Sponsor USD 7,500	Gold Sponsor USD 5,400 per sponsor	Silver Sponsor USD 3,900 per sponsor
Complimentary Full Access Virtual Workshop Registration (worth USD 620 per person)	12	8	5
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Logo and/or link, and sponsorship title on exclusive event banner	✓		
Logo and sponsorship title on front cover of workshop brochure	✓		
Logo and sponsorship title on front cover of workshop Technical Programme booklet	✓		
Logo visibility in all workshop promotional email broadcasts	✓	✓	
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Company logo in on-demand materials up to one (1) month post event	✓	✓	✓
Logo and sponsorship title listed in workshop brochure	✓	✓	✓
Logo and sponsorship title listed in workshop Technical Programme booklet	✓	✓	✓
Opportunity to insert sponsors' promotional materials (PDF or link) as downloadable resources in virtual event platform	2	2	

Workshop Guidelines

1. Documentation

a. Presentation slides / Proceedings will not be published; therefore, formal papers and handouts are not expected from Discussion Leaders.
b. Work in progress, new ideas, and interesting projects are sought.
c. Resource documents may be provided as pre-reads and during the live event.

2. Workshop Deliverables

a. An on-demand version of the live event sessions will be made available to registered participants only.
b. Provision of the live event sessions and presentation materials by Discussion Leaders willsignify their permission for SPE to do so.

3. Commercialism

In keeping with the Workshop objectives and the SPE mission, excessive commercialism in presentations are not permitted. Company logos must be limited to the title slide and used only to indicate the affiliation of the presenter.

4. Certificate of Attendance

All attendees will receive a certificate of attendance. The certificate will be made available during the live event once participants have completed the required viewing/participation time.

5. Continuing Education Units

This Workshop qualifies for SPE Continuing Education Units (CEU) at the rate of 0.1 CEU per hour of the Workshop.

6. Code of Conduct

a. SPE is committed to providing a professional, friendly and safe environment for all participants at its events, regardless of gender, sexual orientation, disability, race, ethnicity, religion, national origin or other protected class.
b. This code of conduct outlines the SPE expectations for all participants, including attendees, speakers and sponsors. Cooperation is expected from everyone, and SPE will actively enforce this code throughout this virtual workshop.
c. Participants will be provided with personalised credentials allowing them access to the virtual workshop. These credentials are personal and non-transferable. Non-registered individuals and minors will not be able to access the virtual workshop, unless upon prior agreement with SPE.
d. SPE expects all event participants to help ensure a safe and positive experience for everyone. Unacceptable behaviour will not be tolerated during any portion of a meeting or event. Unacceptable behaviour includes but is not limited to:
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    vii. Photographing, video or audio recording of slides, oral or presentations without prior written permission from SPE.
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    x. Inappropriate self-presentation or attire. Business casual dress code is preferred.

    Reporting of harassment and disruptive behaviours can be made to apweb@spe.org. Consequences of misconduct may include:
    i. Immediate removal from meetings and/or events without warning.
    ii. Restrictions from future SPE events.
e. SPE reserves all rights to take any action to prevent and report violations of the Code of Conduct, including blocking access to SPE events. SPE cannot investigate reports of harassment or other misconduct during the virtual event but will inform the appropriate departments of the accused person's host institution about any such filed report.

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a. SPE encourages open and respectful discussion in the live event environment, participants are not allowed to post images or video online without obtaining permission. Participants are required to respect the privacy of others and refrain from any unauthorised or unwelcomed recording or photography, including recording of any direct or indirect interactions or electronic messaging. Participants are not allowed to take photos or videos of presentation materials shown without prior written consent by the presenter.
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9. Terms & Conditions

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The Society of Petroleum Engineers (SPE) is a not-for-profit organisation. Income from this event will be invested back into SPE to support many other Society programmes. When you attend an SPE event, you help provide even more opportunities for industry professionals to enhance their technical and professional competence. Scholarships, certification, the Distinguished Lecturer programmes, and SPE's energy education programmes Energy4me are just a few examples of programmes that are supported by SPE.

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SPE VIRTUAL WORKSHOP:

Wells Deliverability Enhancement - Sustaining the Baseline

24 - 26 January 2022 | 1300 hours (UTC +8)

Society of Petroleum Engineers

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SPE Member	☐ Yes ☐ No	Membership Number	
First Name (Forename)		Last Name (Surname)	
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Company Name			
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Postal Code		Country	
Office Phone		Office Fax		Company URL	
Direct Line		Mobile Phone	
Email Address			

Do you wish to be considered a Discussion Leader (10-15 minutes presentation)? ☐ Yes ☐ No

If yes, please indicate the subject/topic on which you would like to present:

Please state your Technical Discipline (Select one ONLY):

☐ Completions ☐ Data Science and Engineering Analytics ☐ Drilling ☐ Health, Safety, Environment, and Sustainability

☐ Management ☐ Production and Operations ☐ Projects, Facilities and Construction ☐ Reservoir

Please state your expectation for the virtual workshop, so that we can tailor a portion for the virtual workshop to answer attendees' concerns.

Send me the latest news, events, and product information as it becomes available. ☐ Yes ☐ No

If yes, your information will be used in accordance with SPE Privacy Policy.

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Description		Fee Per Person			Tick (✓)	Amount (USD)
		Super Early Bird by 12 November 2021	Early Bird by 10 December 2021	Standard after 10 December 2021		
Workshop	Member	USD 420	USD 470	USD 520		
	Non-Member	USD 520	USD 570	USD 620		
Group Registration - Register 5 save 25%, Register 10 save 30% (Refer to Group Registration Form or contact apweb@spe.org for more information)						
					TOTAL AMOUNT (USD)	

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1. Registration Fee

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b. Each participant is limited to maximum of one (1) device to access/login into the virtual workshop.
c. Registration is non-transferable without written notification to SPE.
d. Registration of participation will only be confirmed upon receipt of full payment or an acceptable employer's letter of guarantee.
e. SPE reserves the right to cancel the registration if no payment is received prior to or on the date of the virtual workshop.
f. Full fee is charged regardless of the length of time the Participant attends the virtual workshop and cannot be pro-rated.

2. Taxes

Fees are made free and clear of, and without any deduction or withholding for and on account of, any taxes, duties or other deductions. Any such deduction or withholding, if required by the laws of any country are the sole responsibility of the participant.

3. Cancellation Policy

a. A processing fee of USD 50.00 will be charged for cancellation received before **19 January 2022**.
b. No refund for cancellation received after **19 January 2022**.
c. Participants who failed to attend will not be eligible for a refund.
d. Cancellation must be notified in writing to SPE. Email your cancellation request to apweb@spe.org.

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b. SPE will not be liable to participants for any damages, costs, losses or expenses of any kind incurred or suffered by participants as a result of or in relation to SPE modifying, postponing or cancelling the virtual workshop or any part of the virtual workshop.

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Bank details will be provided in the invoice.

☐ **Credit Card**

SPE accepts American Express, Visa, MasterCard and Diners Club and payment will be processed in US Dollars only.

To pay online, go to:
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For manual payment, you will receive an email with instruction on securely submitting your payment.

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