Upstream Asset Management Summit: Revitalising Assets in the New Era

23–25 February 2022

Virtual
Dear Industry Colleagues,

On behalf of the Summit Committee, it is with great pleasure for me to welcome you to the Upstream Asset Management Summit from 23–25 February 2022.

This summit, previously organised as the Reservoir Management Surveillance Summit (RMSS), is a biennial event championed by PETRONAS for the industry since 2015. Past RMSS editions gathered key industry leaders and technical experts to share learnings, experiences, and solutions applied in the region to address current reservoir management and surveillance issues. We had great discussions with tangible results produced to date, and now in collaboration with SPE International, we are pleased to continue bringing this platform for our collective and continued engagement with a diverse participation supported by SPE’s global network.

Themed “Revitalising Assets in the New Era”, this 2022 edition aims to expand the scope by including holistic solutions and perspectives from subsurface and surface facilities in terms of technology deployment, discipline of execution and most importantly, seamless integration of all parties from subsurface to point of export while at the same time ensuring all activities are undertaken in a safe manner. The summit in 2022 will cover multi-disciplinary topics on:

• Production and Operational Excellence
• Reserves and Production Attainability
• New Life for Matured Field
• Automation and Digitalisation
• Low Carbon Operations and Future Sustainability

It is our aspiration that the Upstream Asset Management Summit: Revitalising Assets in the New Era will provide you with valuable insights and new perspectives to support our daily operations and position us to better address future challenges faced by the industry.

On behalf of the Organising Committee, we thank you for your participation and look forward to connecting with you throughout the virtual summit.

Sincerely,

Aidil Shabudin
Head, Resource Development and Management
Malaysia Petroleum Management
PETRONAS
Summit Advisor
Committee

Executive Summit Chair
Mohamed Firouz Asnan
Senior Vice President
Malaysia Petroleum Management
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Head, Resource Development and Management
Malaysia Petroleum Management
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Manager, Resource Development &
Management Sarawak Cluster-2
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Manager, Asset Assurance
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Manager, Continuous Improvement
JX Nippon Oil & Gas Exploration (Malaysia) Limited

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Group Technical Solutions (GTS)
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Caleb Jia Lih Siew
Subsurface Operations Manager
Peninsula Hibiscus Sdn Bhd

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Amirul Azri Ahmad Nordin
EAG Well Production System (WPRS) Technical & Sales Manager
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Subsurface Operations Manager
Peninsula Hibiscus Sdn Bhd

Salina Baharuddin
Head, Project Management and Interface
PETRONAS Research Sdn Bhd
Committee

Planning Committee

Ahmad Hisyam Faisal
Manager (PE-SK Cluster 1)
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Production & Operations Management (POM)
Malaysia Petroleum Management
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Executive (Petroleum Engineering)
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Staff (Well Intervention)
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Manager (PE, SB-1)
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Manager, Project Governance
Resource Development & Management
Malaysia Petroleum Management
PETRONAS

Muhammad Aiman Jamaludin
Surveillance Engineer
PETRONAS Carigali Sdn Bhd

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go.spe.org/22SM04S
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## Summit Programme Schedule

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**General Information**

**Event Hours**

Please note that the event is scheduled in Kuala Lumpur local time (GMT/UTC +8 time zone)

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<tr>
<td>Friday, 25 February</td>
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Opening and Keynote Session

Wednesday, 23 February 2022 | 0900-0930 hours (UTC +8)

Welcome Remarks

Aidil Shabudin
Head, Resource Development and Management
Malaysia Petroleum Management
PETRONAS

Keynote Address

Handan Ramli
Head, Production and Operations Management
Malaysia Petroleum Management
PETRONAS

Closing Session

Friday, 25 February 2022 | 1200-1215 hours (UTC +8)

Closing Session

Handan Ramli
Head, Production and Operations Management
Malaysia Petroleum Management
PETRONAS
With COVID-19 causing disorder and uncertainties globally, the oil and gas industries are not spared, resulting in huge impacts on day-to-day operations with extreme volatility in the market for supply and demand. Pressure is mounting for companies to ensure financial performance is optimised to remain sustainable in this challenging new normal. This has propelled companies to start reinventing themselves to be more agile and prudent to remain profitable, be it for the short or long term.

Experts see this as a great opportunity for the industry to ‘reset’, hence it is critical for companies to re-evaluate their energy portfolio and improve their business/operational model to thrive in this challenging landscape. With leaders from various organisations, this executive panel session will “pick their brain” for valuable insights on key areas in revitalising upstream asset management in this new era of operating business as unusual.
The oil and gas industry has faced many challenges over the years, however, it is proven that we are able to remain resilient. Throughout the years, we have managed to overcome roadblocks by applying new technologies and innovative solutions, tapping into new resources where deemed impossible in the past, and continue to sustain production until this very day.

All these efforts are the result of prudent asset management to ensure assets are safeguarded and remain healthy throughout its lifecycle. We have seen new ways of thinking and with the support of immense research and development, these are the enablers to support this motion. At the same time, new obstacles continue to arise especially for extremely matured assets.

This panel will gather experts from various backgrounds to discuss current and future enablers and blockers, for the industry to continue evolving and optimising assets in a safe and pragmatic manner.
Panel Session 2: Low Carbon Operations and Future Sustainability of Upstream Assets

Friday, 25 February 2022 | 1100-1200 hours (UTC +10)

Moderator

Mokhdzir Mohd Yatim
General Manager,
Production Delivery SB/SK,
Production & Operations Management (POM)
Malaysia Petroleum Management
PETRONAS

Speakers

Tony Zhang
Senior Client Engagement Lead,
Australia, Southeast Asia, South Asia
Global CCS Institute

Kaiwan Bharucha
Global Director -
Halliburton Consulting
Halliburton

Nasir Darman
Chief Technology Officer
PETRONAS

Shahasir Mohd Nasir
General Manager
Non-Operated Ventures
Shell

With the COVID-19 pandemic accelerating the need for change towards a greener energy source, oil and gas companies must now heed the call and re-calibrate the modus operandi, as well as diversify their natural resources and portfolios to explore renewable energy. With all the major oil, gas, and energy companies focusing on low carbon operations, there is a greater emphasis now on a more sustainable and cleaner hydrocarbon production, by aiming for a smaller or even zero carbon footprint. Additionally, with more stringent regulations by host countries to ensure full compliance to net-zero carbon aspirations, companies are now implementing innovative ways and approaches to address this, while safeguarding the value of upstream assets.

This session will discuss the implementation of low carbon operations in upstream assets, to ensure that future of upstream assets remain sustainable and continue to be the core energy source in the near term. Key discussion areas include:

- Technologies to enable non-hydrocarbon monetisation
- Zero flare/venting philosophy
- Carbon capture technologies
- Renewable energy to compliment fossil fuel production and operation
- Commercial arrangement to further advocate low carbon, such as the introduction of carbon tax
PETRONAS initiated an enhanced collaborative effort to intensify the involvement of Malaysian Academia in technology and research maturation, particularly to resolve pain points in the oil and gas industry. The enhancement journey started in 2021 when PETRONAS hosted an inaugural dialogue with all Malaysian public and private academic institutions where 100 research proposals were received with 23 technological research being shortlisted with potential solutions for the highlighted industry pain points.

During this session, PETRONAS will share the list of technologies that were selected and invite other industry players to collaborate in helping to mature the technological field especially from PACs including service providers.
## Technical Sessions

### Wednesday, 23 February 2022

#### Technical Session 1: Production and Operational Excellence I
**Session Manager:** Zalina Ali, PETRONAS

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<td>1100</td>
<td>Establishing Process Operating Envelope (POE) for Upstream Facilities to Optimise Production, Enhance Facilities Limit Diagram and Reduce Unplanned Production Deferment</td>
<td>Wan Zulkafri Wan Ngah and Azizul Mahmood</td>
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<td>1125</td>
<td>Revolutionising Synthetic PVT as Enterprise Solution to Enhance Accuracy of Multiphase Measurement Facilities</td>
<td>Astriyana Anuar and Zuriyaty Md Yusof</td>
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<td>1150</td>
<td>Reliability Spare Part Modeling in Achieving Operation Excellence</td>
<td>M Ayatollah Charil</td>
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#### Technical Session 2: Production and Operational Excellence II
**Session Manager:** Salina Baharuddin and M Khaidir M Mokhtar, PETRONAS

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<td>Remote Operations Development for Brownfields</td>
<td>Fatimah Samsu</td>
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<td>1125</td>
<td>Pushing the Production Limit through Pipeline Minimum Turndown Rate Assessment</td>
<td>Raihan Rozlee and Amira Rasib</td>
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<td>1150</td>
<td>Water Injection Excellence in Perspective of Production Excellence: Challenges, and Approach in PETRONAS</td>
<td>Shuhada Md Rifin and Sriyanta Hadi</td>
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### Thursday, 24 February 2022

#### Technical Session 3: Reserves and Production Attainability I
**Session Manager:** Caleb Siew, Peninsula Hibiscus Sdn Bhd; Muhammad Aiman Jamaludin, PETRONAS Carigali Sdn Bhd

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<tr>
<td>0900</td>
<td>Application of Properties Cut-Off Optimisation in Laminated Sand-Shale Reservoirs to Unlock Heterolithic Reservoir Potential in Malay Basin</td>
<td>Stanley Jaul Kampit, KUFPEC (Malaysia) Sdn Bhd</td>
<td>KUFPEC (Malaysia) Sdn Bhd</td>
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<td>0925</td>
<td>Principles for Managing Reserves and Resources in Albania</td>
<td>Besmir Buranaj Hoxha, Baker Hughes</td>
<td>Baker Hughes</td>
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<td>0950</td>
<td>Setting Range of Recoverables and Development Concept in the Right Ballpark: Probabilistic Methodology for Notional Development Concept Screening in Prospects Evaluation</td>
<td>Ankaj Kumar Sinha, PETRONAS Carigali Sdn Bhd</td>
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#### Technical Session 4: Reserves and Production Attainability II
**Session Manager:** Mohd Azran Abd Jalil, PETRONAS Research Sdn Bhd

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<td>0900</td>
<td>Smart Completion Optimisation and Downhole Choke Application for In-situ Gas Lift in a Mature Malaysian Oil Field</td>
<td>Ashvin Avalani Chandrakant and Ryan Scott Guillory, PETRONAS Carigali Sdn Bhd</td>
<td>PETRONAS Carigali Sdn Bhd</td>
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<td>0935</td>
<td>Application of the Extended Dilation Breakdown Method to Improve Well Performance in South Sumatra</td>
<td>Ridwan Kiyai Demak and Nayung Galih; PT Pertamina</td>
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# Technical Sessions

## Thursday, 24 February 2022

### Technical Session 5: New Life for Matured Field I

**Session Manager:** James Tunku Solomon, JX Nippon Oil & Gas Exploration (Malaysia) Limited; Nicolas Grippo, PETRONAS

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<td>1100</td>
<td>Inter-well Tracer Injection - Unfolding the Truth for Water Injection Optimisation</td>
<td>Mohd Fairuz Azman</td>
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<td>1120</td>
<td>Short-Term and Long-Term Production Optimisation Strategies to Combat Flow Assurance Challenges Encountered in a Depleted Fluvial Sand Reservoir</td>
<td>Tharaniya Manoharan</td>
<td>Hibiscus Petroleum</td>
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<td>1140</td>
<td>Pioneering Application of Plasma Spray Coatings to Improve the Erosion Resistance of Rod Based Wedge Wire Screen</td>
<td>Yeap Wei Jian</td>
<td>PETRONAS Carigali Sdn Bhd</td>
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<td>1200</td>
<td>Extending Life - The Banang Story</td>
<td>Siti Sakinah Sari’at</td>
<td>PETRONAS</td>
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## Thursday, 24 February 2022

### Technical Session 6: New Life for Matured Field II

**Session Manager:** Michael Anthony Fox, SEA Hibiscus Sdn Bhd; Amirul Adha Amsidom, PETRONAS Carigali Sdn Bhd

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<td>1100</td>
<td>Paradigm Shift - Surface Determine Subsurface React</td>
<td>Norsham Nordin and Wong Hui Yin</td>
<td>PETRONAS</td>
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<td>1150</td>
<td>Extending a Mature Asset’s Field Life through Idle Well Restoration</td>
<td>Tham Kah Meng and Khairul Riza</td>
<td>SEA Hibiscus Sdn Bhd</td>
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## Friday, 25 February 2022

### Technical Session 7: Automation and Digitalisation I

**Session Manager:** Amirul Azri Ahmad Nordin, Schlumberger

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<td>Digital Transformation in Oil and Gas: How to Accelerate it and Improve the Production</td>
<td>Yusfiannur, Pertamina Hulu Rokan</td>
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<td>0925</td>
<td>Ushering Operational Excellence through Development and Operationalisation of Closed Loop Action Tracking System</td>
<td>Amit Choudhuri</td>
<td>PETRONAS Carigali Sdn Bhd</td>
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<td>0950</td>
<td>Agora IIOT - DigiVision - Enable Real-Time Vision with Internet of Eyes</td>
<td>Edwin Lawrence</td>
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### Technical Session 8: Automation and Digitalisation II

**Session Manager:** Eugene Castillano, Shell; Eloise Kundimoi Kinson, PETRONAS

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<tr>
<td>0900</td>
<td>Real-Time Well Optimisation: Application of Digital Intelligent Artificial Lift (DIAL) in D Field Acid Stimulation</td>
<td>Amir Firdaus Ahmad Abdul Ghani</td>
<td>PETRONAS</td>
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<td>0925</td>
<td>Enhancing ROI from Digitalisation Initiatives through Integrated Asset Management at an Asset Level by Leveraging Corporate Frameworks</td>
<td>Amin Shahbazi, Risehill Data Analysis Sdn Bhd; Francis Bellavance, Innovateq</td>
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<td>0950</td>
<td>A Platform Weight Intelligent Analytical Tool for Smart Asset Management - iWEIGHT</td>
<td>Horng Eng Tang</td>
<td>PETRONAS</td>
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Knowledge Sharing ePoster Sessions

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