

Exploration and Production Potentials of Myanmar – Frontier Deepwater and Rejuvenation of Offshore and Onshore Projects

25 – 26 NOVEMBER 2019 | YANGON, MYANMAR



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The oil and gas industry is moving towards deepwater exploration as cost optimisation, through a period of low priced oil, has ensured deepwater explorations and production become more viable. Currently, offshore production facilities in Myanmar exists in both shallow and medium water depths; however, the potential of frontier deepwater exploration are available within the Myanmar offshore blocks.

Future deepwater activities will create opportunities in Myanmar especially in end-to-end exploration and production (E&P), and throughout its value and supply chain. In the long run, the emphasise of the industry will include a digitally and technologically enhanced approach to deepwater E&P; while taking an in-depth, methodological and systems-based field development; subsea wellhead completion, asset integrity and more. At the same time, the support system to deepwater E&P must also be developed to ensure that the industry meet regulatory, logistical, environmental, and infrastructure challenges in the Myanmar operations.

This workshop will provide a unique platform for industry practitioners and subject matter experts in E&P and operations to discuss opportunities, emerging technologies, holistic approaches to E&P and more. The workshop also aims to provide an insight on how the industry can rejuvenate both onshore production and operations.

Session Highlights

Applicable Rules and Regulations in Myanmar Offshore Blocks (EIA & SIA Concerns Inclusive)

Global View on Logistic Chains within Myanmar Offshore Areas

Geophysical Review on Myanmar Deep Water Blocks in Particular

Reviewing Existing Offshore Development Projects and Best Practices, and Sharing of Lessons Learnt

Deepwater Completion and Production Technology Concepts

Wells Intervention Techniques

Who Should Attend

Professionals involved in:

- Asset Integrity
- Drilling and Completion
- Geoscientists
- Logistic and Procurement
- Management of Change
- Petrophysicists
- Production Technology
- Process Safety Management
- Reservoir Engineers
- Risk Assessment Management
- Supply Chain Management
- Well Engineering, Operation and Services

Technical Programme Committee

CO-CHAIRS

Liau Min Hoe
Country Chairman - Myanmar
PETRONAS Carigali Myanmar

David Moon
Well Delivery Manager
Woodside Myanmar

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Vietnam-Cambodia
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GROUP REGISTRATIONS AVAILABLE!
Contact us at spekl@spe.org to arrange your group.

go.spe.org/20WA06W

Workshop Objectives

This technical workshop aims to impart participants with a comprehensive view on the shift of the industry towards deepwater E&P and how the whole ecosystem can co-exist in a synergistic environment, by:

- Deliberating on the E&P potentials and raising awareness of both offshore and onshore activities
- Addressing integrity concerns of deepwater subsea installations and improving effectiveness of deepwater production systems throughout all phases
- Discussing onshore production enhancement issues, such as imaging, production logging, secondary and tertiary production enhancement and more

WORKSHOP STATISTICS



10+
hours of peer-to-peer
networking opportunities



30+
hours of knowledge sharing
and technical discussion



30
expert-led technical
discussion topics

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Technical Programme Preview

MONDAY, 25 NOVEMBER 2019

0800 – 0850 Arrival of Delegates and Registration

0850 – 0900 Safety Announcement by Hotel

0900 – 1000 **Session 1: Welcome and Introduction**

Co-Chairs: Liau Min Hoe, **PETRONAS Carigali Myanmar**; David Moon, **Woodside Myanmar**

Keynote Address: Myo Myint Oo, Managing Director, **Myanma Oil & Gas Enterprise**

1000 – 1030 Group Photo / Coffee and Tea Break

1030 – 1230 **Session 2: Applicable Rules and Regulations in Myanmar Offshore Blocks**

Session Manager: Aung Kyaw Min, **Schlumberger Oilfield Services Myanmar**

Myanmar has been a gas exporter for the past two decades with four major producing fields, namely Yetagun, Yadana, Zawtika and Shwe, where some have either started or expected to decline soon. Considering that only 57% of population have access to the electricity grid, the country needs to find more gas reserves to cope with the demand for electricity, and to compensate for the decline in production.

As such, Myanma Oil & Gas Enterprise (MOGE) is planning to launch a new PSC round for 33 onshore and offshore blocks with improved terms to attract investors. The Ministry of Natural Resources and Environmental Conservation (MONREC) has established stringent Environmental Impact Assessment (EIA) and Social Impact Assessment (SIA) guidelines as part of effort to address the HSE and Social Responsibility aspects of the expansion. At the same time, the government has also drafted a new Petroleum Law which is being reviewed in the Parliament to be enacted soon. This session will discuss the following topics and will review what the future may hold for industry players from a regulatory standpoint:

- Launch of new bidding round with improved PSC terms
- Environmental and social perspectives
- New Petroleum Law and its implication for future businesses in Myanmar
- The role of local service providers and development of local content

1230 – 1330 Networking Luncheon

1330 – 1530 **Session 3: Global View on Logistic Chains within Myanmar Offshore Areas**

Session Managers: David Moon, **Woodside Myanmar**; Syazwan A Ghani, **PETRONAS Carigali Myanmar**

Successfully constructing offshore wells in Myanmar requires delivering materials and services across a long supply chain from throughout Asia to the offshore rig sites in Myanmar. The ability to deliver to the rig in a timely and cost-effective manner is critical to avoid standby costs and project delays. Historically, materials and equipment have been sourced from countries such as Singapore, Malaysia, Thailand, Indonesia and Japan using supply bases such as Jurong in Singapore and Ranong in Thailand. Operators have developed logistic models to manage this supply chain, and as the offshore business grows in Myanmar, the opportunity may exist to develop a local supply base and shorten the supply chain further. With Myanmar leaning towards developing a custom bonded warehouse area, which is specifically designed to support the industry, the global view of the supply chain landscape for the existing Operator's logistics model will change. This session will review current practices and take a look at what the future might bring:

- Supply base management of offshore projects (such as Singapore, Thailand, Myanmar)
- Myanmar logistics management from service company and supply base operator's perspective
- Import and export requirements on material planning

1530 – 1545 Coffee and Tea Break

POSTER SOLICITATION & INFORMATION

All participants are encouraged to prepare a poster for the Workshop. Presentations on both research and field experience are welcomed. Posters, including unconfirmed / partial results, are to be presented at an assigned time and are open for discussion. Posters will be on display for the entire Workshop period.

When preparing your poster:

- Avoid commercialism. No mention of trademarks / product name
- Poster size should be approximately 0.8m x 1.2m (W x H) or size A0 in portrait layout
- Identify topic by title, affiliation, address, and phone number
- Include a brief abstract that summarises the technology to be addressed
- Make the display as self-explanatory as possible
- Place the information in sequence: beginning with the main idea or problem, method used, results, etc. (Draw a plan keeping the size and number of illustrations in mind)
- Keep illustrations simple by using charts, graphs, drawings, and pictures to create interest and visually explain a point
- Use contrasting colours
- Use large print for narrative materials. (We suggest a minimum of 24 points or 3" high letters for the title)

*Note that the Workshop Programme Committee will review all poster abstracts / materials prior to display, and reserves the right to refuse permission to display any poster considered to be commercial in nature. If you are interested to participate, please email your proposed topic with a short abstract (between 200-300 words) to **Hanna-Rose Abdul Jalil** at hajalil@spe.org by **30 September 2019**.

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.

Session 4: Subsurface Challenges/Best Practices/ApproachesSession Managers: Jakkarin Iamboon, **PTTEP**; Shankar Bhukya, **NOV**

Conventional oil and gas, cheap and easy-to-drill prospects have been tested and developed for decades. Many companies go through hard work to take on the higher risk in exploring and producing oil and gas in challenging environments (deeper water depth, more complex geology and HPHT). Driven by knowledge management, thinking process and technological advancements, we can see a significant increase in the average monthly discovered volumes in 2019, approximately 35% more than the discovery seen in 2018. However, it still remains a challenge in Myanmar as there is a lack of significant discoveries over the years. Thus, this session will discuss the geological concepts, best practices and recent technological approaches, starting from the initial stage of geophysical survey to prospect evaluation, risk assessment, decision-making, drilling operation the final stage of discovery to further complement the exploration and development efforts in Myanmar.

Session 5: Breakout SessionSession Manager: Aung Min Thein, **Baker Hughes, a GE Company**

Welcome Dinner

TUESDAY, 26 NOVEMBER 2019**Session 6: Reviewing Existing Offshore Development Projects and Best Practices, and Sharing of Lessons Learnt**Session Manager: Jakkarin Iamboon, **PTTEP**

To maximise oil and gas production with cost optimisation in mind, knowledge of hydrocarbon resources and understanding of existing infrastructure are essential. Possible play concepts and prospects inventory need to be fully identified to establish multiple development scenarios. Increasing water depths and area accessibility are also considered as major factors of the development concept. This session will focus on sharing participants' area of expertise, best practices and lesson learnt in offshore development projects such as:

- Field and surface facility development concepts
- Economic evaluation
- Hook-up and commissioning
- Well drilling and production planning
- Environmental impact
- Production life cycle management
- Decommissioning plan

Coffee and Tea Break

Session 7: Deepwater Completion and Production Technology ConceptsSession Managers: Thant Zin Tun (TZ), **Halliburton**; Suhaila Wahib, **PETRONAS Carigali Myanmar**

Deepwater will post challenges on how hydrocarbon can be produced optimally throughout the field life. The logistics of producing hydrocarbons from extreme water depths, complex geological formations, and HPHT environments present considerable technical challenges and risks for operators. We cannot turn away from facing flow assurance, inefficiency of pressure maintenance, reservoir souring, and surveillance

requirement. These important points require an integrated evaluation of well completion and production technology concepts to mitigate the challenges in a sustainable and cost-effective way. This session will cover the following topics but is not limited to:

- Lifting evaluation to sustain production after water breakthrough and reservoir pressure depletion
- Material selection in view of reservoir souring, water injection quality, injection pressure and contaminants to balance with cost and asset integrity
- Sand control design for producer and injector in view of uncertainty in well trajectory
- Equip well design with future surveillance requirement, although deepwater subscribe to intervention-less philosophy
- Risk benefit analysis for deepwater as a choice of field-to-pilot new technology
- Using non-rotational retrievable packer in drill stem test string for deepwater and HPHT well testing
- Deepwater control and monitoring system with intelligent completion, such as Permanent Downhole Gauges (PDGs) and surface controlled reservoir analysis and management system
- Delivering single trip multi zone sand control gravel pack completion solution in deepwater and ultra-deepwater environments
- Maximise production from multilateral completion for the lowest cost-per-foot reservoir in deepwater and ultra-deepwater environments

Networking Luncheon

Session 8: Well Intervention TechniquesSession Managers: Anupong Chailert and Aung Min Thein, **Baker Hughes, a GE Company**

To get your drilling and production programmes back on track fast, ensure your wellbore is clean before installing the completion, limit production downtime and improve reservoir flow with customised conventional or through-tubing remediation and stimulation. And, when the time comes, safely and efficiently plug and abandon your well with confidence. This session will highlight and discuss high-level approaches to well intervention, fit-for-purpose and potential techniques. Various technological adoptions and applications will also be shared and deliberated:

- Deployment methods
- Production management and enhancement
- Data acquisition and logging
- Operate more efficiently, solve more unforeseen problems with ease
- Rejuvenate production
- Reduce risk and non-productive time (NPT)
- Boost ROI while reducing cost

Coffee and Tea Break

Session 9: Workshop Summary and Closing RemarksCo-Chairs: Liao Min Hoe, **PETRONAS Carigali Myanmar**; David Moon, **Woodside Myanmar****SPONSORSHIP SUPPORT INFORMATION**

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.

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In addition to onsite recognition, SPE will recognise sponsors on the SPE website and in all printed materials for the workshop. Based on the category selected, supporting companies also receive logo visibility on promotional workshop items.

FOR MORE INFORMATION

For a detailed list of available sponsorship opportunities, including benefits and pricing, contact **Hanna-Rose Abdul Jalil** at hajalil@spe.org.

GENERAL INFORMATION**DOCUMENTATION**

- Proceedings will not be published; therefore, formal papers and handouts are not expected from speakers.
- Work-in-progress, new ideas, and interesting projects are sought.
- Note-taking by attendees is encouraged. However, to ensure free and open discussions, no formal records will be kept.

WORKSHOP DELIVERABLES

- The committee will prepare a full report containing highlights of the Workshop and the report will be circulated to all attendees.
- Powerpoint presentations will be posted online and provided to attendees after the Workshop. Provision of the materials by Discussion Leaders will signify their permission for SPE to do so.

COMMERCIALISM

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

ATTENDANCE CERTIFICATE

All attendees will receive a Workshop attendance certificate. This certificate will be provided in exchange for a complete Attendee Survey Form.

CONTINUING EDUCATION UNITS

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

TRAVEL/VISA

Attendees are advised to book their airline tickets early. All travellers must be in possession of passports valid for at least six (6) months with proof of onward passage. Contact your local travel agent for information on visa requirements.

DRESS CODE

Business casual clothing is recommended. The Workshop atmosphere is informal.

REGISTRATION FEE

- Registration fee ONLY includes all workshop sessions, coffee breaks and luncheons for the registrant. Accommodation is NOT included.
- SPE will provide details of recommended hotels upon receipt of your registration.
- Taxes: Registration 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.

REGISTRATION POLICY

- Registration fee MUST be paid in advance for attending the Workshop.
- Full fixed fee is charged regardless of the length of time the registrant attends the Workshop, and cannot be prorated or reduced for anyone.

REGISTRATION FORM

SPE WORKSHOP:

Exploration and Production Potentials of Myanmar – Frontier Deepwater and Rejuvenation of Offshore and Onshore Projects

25 – 26 November 2019 • Yangon, Myanmar



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SPE Member	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Membership Number		
First Name (Forename)			Last Name (Surname)		
Job Title					
Company Name					
Mailing Address					
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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
 Drilling
 Health, Safety and Environment
 Management and Information
 Production and Operations
 Reservoir
 Projects, Facilities and Construction

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

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Description		Fee Per Person			Tick (✓)	Amount (USD)
		Super Early Bird by 26 September 2019	Early Bird by 25 October 2019	Standard After 25 October 2019		
Workshop	Member	USD 1,500	USD 1,600	USD 1,700		
	Non-Member	USD 1,700	USD 1,800	USD 1,900		
TOTAL AMOUNT (USD)						

TERMS & CONDITIONS

Registration Fee

- Fee includes workshop sessions, workbook, certificate, daily luncheons and coffee breaks.
- Fee DOES NOT include accommodation. SPE will provide details of recommended hotels upon receipt of your registration.
- Registration of participant will only be confirmed upon registration and receipt of full payment or an acceptable employer's letter of guarantee.
- All outstanding payments must be received on or prior to the date of the event for participants to be allowed to attend. SPE reserves the right to cancel the registration if no payment is received prior to or on the date of the event.
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- Registration cancelled between fifteen (15) days to twenty-nine (29) days prior to the first day of the event will be refunded 25% of the registration fees.
- Registration cancelled fourteen (14) days or less prior to the first day of the workshop will not be eligible for a refund.
- Participant who failed to attend will not be eligible for a refund.
- Cancellation must be notified in writing to SPE.

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