

SPE WORKSHOP

23-24 JUNE 2026 | JAKARTA, INDONESIA



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# HPHT and Deepwater Wells: Drilling Challenges, Technologies and Applications

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# HPHT AND DEEPWATER WELLS: DRILLING CHALLENGES, TECHNOLOGIES AND APPLICATIONS

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## About the Workshop

### HPHT and Deepwater Wells: Drilling Challenges, Technologies and Applications

High-pressure, high-temperature wells, particularly in deepwater environments, present significant challenges in subsurface evaluation, well design, drilling, completions, production, and long-term well integrity.

As the industry continues to explore deeper and more complex reservoirs, the combined effects of HPHT conditions, narrow operating windows, complex well architectures, and remote offshore operations place increasing demands on technology, risk management, and project execution.

This workshop will provide a platform for sharing experience, case studies, and best practices related to HPHT wells, including those in deepwater environments. Topics will include subsurface evaluation and well design, well control under narrow pressure margins, fluid and cementing, reservoir management and flow assurance, digital and automation technologies, and project execution and economics. The programme is designed to promote cross-disciplinary discussion and knowledge exchange among operators, service companies, and technology providers involved in HPHT and deepwater developments.



**REVIEW** current technical practices and challenges in HPHT well design, drilling, and production



**UNDERSTAND** the role of new technologies and digital solutions in improving HPHT well performance and reliability



**LEARN** from case studies and operational lessons from HPHT wells in different operating environments



**EXCHANGE** perspectives on risk management, and project execution strategies for HPHT developments

## Who Should Attend?

-  ACADEMIA
-  ASSET MANAGERS
-  DEEPWATER DRILLING
-  DESIGN VERIFICATION
-  DRILLING AUTOMATION
-  DRILLING AND COMPLETIONS
-  DRILLING CONTRACTORS
-  DRILLING OPTIMISATION
-  FIELD DEVELOPMENT
-  EXPLORATION ENGINEERING
-  GEOLOGICAL & GEOPHYSICAL
-  GEOTHERMAL
-  HPHT DRILLING
-  HSE AND RISK MANAGEMENT
-  PETROPHYSICS
-  PRODUCTION ENGINEERING
-  REGULATORY
-  RESERVOIR ENGINEERING
-  SERVICE PROVIDERS
-  SUBSEA DESIGN
-  SUBSURFACE INTERPRETATION AND MODELLING
-  WELLS ENGINEERING AND SERVICES

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COMMITTEE  
MEMBERS

Get to know the Committee Members that shapes the programme.

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## Programme Schedule

### TUESDAY, 23 JUNE 2026

|                 |  |
|-----------------|--|
| 0800-0850 hours | Registration and Welcome Refreshments  |
| 0850-0900 hours | Safety Announcement  |
| 0900-1000 hours | <b>Welcome Remarks and Keynote Address</b>   |
| 1000-1030 hours | Group Photo/Coffee and Tea Break   |
| 1030-1230 hours | <b>Session 1: Well Design and Subsurface Evaluation</b>  |
| 1230-1330 hours | Networking Luncheon  |
| 1330-1530 hours | <b>Session 2: Well Control in HPHT and Deepwater Wells under Narrow Pressure Margins: Risks and Operational Strategies</b> |
| 1530-1545 hours | Coffee and Tea Break   |
| 1545-1745 hours | <b>Session 3: Reservoir Management, Production and Flow Assurance</b>  |
| 1745-1830 hours | Poster Session   |
| 1830 hours      | Welcome Dinner   |

### WEDNESDAY, 24 JUNE 2026

|                 |  |
|-----------------|--|
| 0900-1030 hours | Panel Session  |
| 1030-1045 hours | Coffee and Tea Break   |
| 1045-1245 hours | <b>Session 4: New Technologies and Digital Enablement</b>    |
| 1245-1415 hours | Networking Luncheon  |
| 1415-1615 hours | <b>Session 5: Project Economics and Execution Strategies</b> |
| 1615-1630 hours | Coffee and Tea Break   |
| 1630-1700 hours | Workshop Summary and Closing Remarks                         |

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## Tuesday, 23 June 2026

0900 - 1000

Welcome Remarks and Keynote Address



### WELCOME REMARKS

Firmansyah Arifin  
Workshop Co-Chair  
Vice President, Marketing and Commercial  
PT Pertamina Drilling Services Indonesia



### WELCOME REMARKS

Debby Halinda Utamingdiah S.  
Workshop Co-Chair  
Senior Specialist III, Upstream Research  
PT Pertamina (Persero)

1000-1030 | GROUP PHOTO/COFFEE AND TEA BREAK

1030-1230

### SESSION 1: WELL DESIGN AND SUBSURFACE EVALUATION

Session Managers: Ilhan Akbar, **Drilling Tools International**; Wahyu Sutresno, **PT Pertamina Geothermal Energy Tbk**

*This session covers well design and subsurface evaluation in high uncertainty settings, featuring case studies in exploration drilling, HTHP shale coring, pore pressure prediction in complex deepwater geology, and controlled mud level well planning.*

1230-1330 | NETWORKING LUNCHEON

1330-1530

### SESSION 2: WELL CONTROL IN HPHT AND DEEPWATER WELLS UNDER NARROW PRESSURE MARGINS: RISKS AND OPERATIONAL STRATEGIES

Session Managers: Daddy Sutansyah, **PT Pertamina Internasional EP**; Ruhut Hutabarat, **PT Pertamina Hulu Energi**

*This session focuses on well control under narrow pressure margins in HPHT and deepwater wells, covering real time monitoring and calibration, advanced fluid systems, cementing technologies for hydrate risk, and digital automation to improve efficiency and reduce NPT.*

1530-1545 | COFFEE AND TEA BREAK

1545-1745

### SESSION 3: RESERVOIR MANAGEMENT, PRODUCTION AND FLOW ASSURANCE

Session Manager: Debby Halinda Utamingdiah S., **PT Pertamina (Persero)**

*This session addresses reservoir management and flow assurance in HPHT and deepwater wells, covering representative PVT fluid sampling, tracer-based water zone identification, annulus pressure management, and hydrate removal solutions to unlock and sustain production.*

1745-1830 | POSTER SESSION

1830 | WELCOME DINNER

## Wednesday, 24 June 2026

0900-1030

### PANEL SESSION

### HPHT & DEEPWATER WELLS: MANAGING TECHNOLOGY, RISK AND VALUE IN HIGH UNCERTAINTY ENVIRONMENTS

Session Manager: Azyyati Ahmad Hamizan, **Malaysia Petroleum Management (MPM), PETRONAS**

*This panel explores HPHT and deepwater well delivery where technical uncertainty, narrow margins, and high capital risk intersect. It examines integrated subsurface, geomechanics, and development planning, technology readiness, and risk frameworks to deliver safe outcomes.*

1030-1045 | COFFEE AND TEA BREAK

1045-1245

### SESSION 4: NEW TECHNOLOGIES AND DIGITAL ENABLEMENT

Session Managers: Firmansyah Arifin, **PT Pertamina Drilling Services Indonesia**; and Mabel Lim, **SLB**

*This session showcases emerging technologies and digital enablement in drilling and production, including orchestrated automation, advanced deepwater cementing for extreme conditions, digital twins with predictive analytics, and complex intervention solutions to improve safety and performance.*

1245-1415 | NETWORKING LUNCHEON

1415-1615

### SESSION 5: PROJECT ECONOMICS AND EXECUTION STRATEGIES

Session Managers: R. Ryan Aditya Surya Wijaya, **PT Pertamina Drilling Services Indonesia**; Setiohadi, **PT Pertamina EP Cepu**

*This session examines strategies to strengthen project economics and execution for complex offshore and HPHT developments, sharing lessons in subsea development concepts, integrated authority-operator delivery models, drilling facilities alignment, and performance improvement through bottleneck management.*

1615-1630 | COFFEE AND TEA BREAK

1630-1700 | CLOSING REMARKS WORKSHOP CO-CHAIRS

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| Option to display one company bunting**  | ✓                               | ✓                         | ✓                           | ✓                           |

\*Include 1 Oblong Table + 2 Chairs

\*\*Company to provide bunting

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