

Offshore Technology Conference Asia (OTC ASIA 2014)

Meeting the Challenges for Asia's Growth

**Kuala Lumpur, Malaysia
25-28 March 2014**

Volume 1 of 4

ISBN: 978-1-63266-387-0

TABLE OF CONTENTS

OTC-24673-MS

[Reducing Phase Trapping Damage in Tight Gas Reservoirs](#)

N. Bahrami, Upstream Consulting Services Australia (UCS-AUS)

OTC-24674-MS

[Accurate Phase Equilibria Predictions for Hydrates of Multi-Component Natural Gases](#)

P. Mekala and J.S. Sangwai, Indian Inst. of Technology Madras

OTC-24675-MS

[Unique Technical and Operational Collaboration to Complete One of World's Hottest Offshore Hydraulic Propped Fracturing Well](#)

A. Barasia, M. Singh, S. Kasturia, A. Christiawan and R. Venkateshwaran, Schlumberger

OTC-24676-MS

[Real Time Logging of Sub-Hydrostatic Wells Using Concentric Coiled Tubing Technology](#)

M. Ababou, A. Shote and T. Sturgeon, Baker Hughes Inc

OTC-24677-MS

[Key Technologies for Developing Marginal Oil Fields in Offshore China](#)

X. Bie, Q. Yang, X. Liao, China National Offshore Oil Corp.; and T. Tran, X. Liang, Chevron Corp.; and C. Mu, Y. Hu, T. Li, and J. Su, China National Offshore Oil Corp.

OTC-24679-MS

[Advances in Compact Flotation Units \(CFUs\) for Produced Water Treatment](#)

M. Bhatnagar and C.J.Sverdrup, Cameron Intl.

OTC-24680-MS

[Combining Design of Experiments and Streamline-Based Simulation for Efficient Thermal IOR Development Study in a Waterdrive Light Oil Reservoir](#)

W.J. Al-Mudhafer, South Oil Co.-Iraq & Louisiana State U., and A.F. Alta'ee, U. Teknologi PETRONAS

OTC-24681-MS

[Back Analysis of Foundation Pile Design for Liwan 3-1 Offshore Platform](#)

X. Zhang , Y. Liu , M. Guo, H. Yin and H. Huang, China Offshore Oil Engineer Co., Ltd.

OTC-24682-MS

[Study on Matching Relationship of Polymer Hydrodynamic Size and Pore Throat Size for Stratium in Sand Reservoir](#)

D.D Yin, Y.Q. Li, D.F. Zhao, F.Y. Wang and J.X. Gao, China U. of Petroleum-Beijing

OTC-24683-MS

[New Guideline for Seismic Assessment of Fixed Facilities in Malaysian Water](#)

K. Mukherjee, M.S.B. Ayob, and T.K. Lai, Group Technical Solutions, PETRONAS, and N.W. Nichols, PETRONAS Carigali Sdn. Bhd.

OTC-24684-MS

[Installation of Dual-Riser Combination onto the Existing Jacket](#)

S. Zhou, D. Li, J. Wang, W. Wang, D. Chen, C. Qiu, and S. Liang, CN00C China Ltd.-Zhanjiang; T. Jin and D. Zhou, China Ocean Engineering Service Shanghai Company; and S. Chen, Y. Yin, and X. Deng, Zhanjiang Nanhai West Oil Survey & Design Co.Ltd.

TABLE OF CONTENTS

OTC-24686-MS

[Soybean Slurry - A Novel and Efficient Anti-oil Congealer](#)

A. Punase, Texas A&M U.

OTC-24688-MS

[Subsea Processing Systems: Optimising the Maintenance, Maximising the Production](#)

K. Eriksson and K. Antonakoupolos, Aker Solutions

OTC-24689-MS

[Subsea Processing : Oil/Water Quality Control](#)

K. Eriksson, Aker Solutions

OTC-24690-MS

[An Advanced Placement Approach for Chemical Sand and Fines Control Using Zeta Potential Altering Chemistry](#)

P. Singh and K. Smith, Weatherford, and B. Rao, BTechSoft

OTC-24691-MS

[Drilling Waste Reduction and Improved HSE on Maersk Giant Utilising Revolutionary Lightweight Vacuum Conveyor System](#)

A. Kroken, J.K. Vasshus and T. Grelland, Cubility

OTC-24692-MS

[Optimum Well Completion Strategies in Tight Oil Reservoirs](#)

L. Saputelli, Frontender Corp.; A. Chacon, Halliburton; and C. Lopez, BP

OTC-24693-MS

[Enhancing Operational Envelope for Offshore Coiled Tubing Interventions to Perform in Monsoon Season](#)

R. Wattanasuwankorn, F. Hammer and R. Christieson, Halliburton - Boots & Coots, and Y. Song and N. Long, Brunei Shell Petroleum Co. Sdn. Bhd.

OTC-24694-MS

[Experimental Study on Optimal Polymer Injection Timing in Offshore Oilfields](#)

J. Gao and Y. Li, China U. of Petroleum (Beijing); J. Li, Daqing Oilfield Exploration and Development Inst.; D. Yin, China U. of Petroleum (Beijing); and H. Wang, Northeast Petroleum U.

OTC-24696-MS

[Unlocking the Potential of Metal Oxides Nanoparticles to Enhance the Oil Recovery](#)

L. Hendraningrat and O. Torsater, Norwegian U. of Science & Technology

OTC-24697-MS

[Effective Lateral Buckling Mitigation for Deepwater Flowline](#)

K.K. Lim and S. M. Lau, J P Kenny Wood Group Sdn. Bhd.

OTC-24698-MS

[Oil Recovery by Steam-CO₂-Foam Flooding: Combination of CO₂-Foam Flooding and Steam Injection as a Novel Enhanced Oil Recovery \(EOR\) Method in Heavy Oil Reservoirs](#)

H.N. Daraei, E. Sahraei and E. Khodapanah, Sahand U. of Technology

TABLE OF CONTENTS

OTC-24699-MS

Free Span Rectification by Pipeline Lowering (PL) Method

N.I. Thusyanthan, Acteon Group; K. Sivanesan, Five Lakes Management Consultancy; and G. Murphy, Reef Subsea

OTC-24701-MS

A New Method of BHP Measurement in ESP Deadhead Test

X. Wei, ROC Oil; W. Liu, CNPC; and Y. Pi, Baker Hughes

OTC-24703-MS

A Simulation Approach for Optimisation of Gas Lift Performance and Multi-Well Networking in an Egyptian Oil Field

M.S. Yakoot, Gulf of Suez Petroleum Co. (GUPCO); S.A. Shedid, NEXT - Schlumberger; and M.I. Arafa, PETRONAS

OTC-24705-MS

Upgrade of Spar Topsides with Comprehensive Facilities Sand Management System

Y. Loong, Murphy Sabah Oil Co., Ltd., and H. Rawlins and D. Goo, eProcess Technologies

OTC-24706-MS

The Effects of Geomechanics on the WAG Injection Model

M. Bataee, S. Irawan and S. Majidaie, U. Teknologi PETRONAS

OTC-24708-MS

Open Hole Formation Testing and Sampling in Shallow and Low Pressure Gas Reservoirs: Best Practices and Lessons Learned

R. Trebolle and M. Okamoto, Petrofac Malaysia, and S. Haddad and W.W. Wa, Schlumberger

OTC-24709-MS

Cathodic Protection Assessment by Means of Multiple Calibration Techniques for Integrity Management and Life Extension of Offshore Facilities

A. Nezamian and J. Sucharov, WorleyParsons

OTC-24710-MS

CFD Based Erosion Analysis for Design of Subsea Hardware in a High Flow Rate Gas Field

A. Singh and S. Sarkar, Shell Projects & Technology, India.; J.M. Spritzer, Shell Global Solutions (Malaysia) Sdn. Bhd.; and A.O. Okeremi, Shell Nigeria Exploration and Production Co. Ltd.

OTC-24711-MS

Technical and Economical Comparison of Subsea Active Heating Technologies

B. Ansart, A. Marret, T. Parenteau and O. Rageot, Technip

OTC-24712-MS

First High-Rate Hybrid Fracture in Em-Yoga Field, West Siberia, Russia

Z. Kaluder, M. Nikolaev, I. Davidenko, F. Leskin, M. Martynov, and I. Shishmanidi, OJSC Rosneft Oil Company; A. Platunov, formerly TNK-BP Oil Company; and K.K. Chong, V. Astafyev, A. Shnitko, and E. Fedorenko, Halliburton

OTC-24714-MS

The Use of Direct Tension Monitoring of Mooring Lines in Reducing Conservatisms in Design and Analysis Models

S. Gauthier and E. Elletson, Pulse Structural Monitoring

TABLE OF CONTENTS

OTC-24715-MS

[Simulation Protocol for Core Flooding: Relative Permeability and Capillary Pressure Analysis](#)

S. Kumar, Weatherford Oil Tool Middle East - Pakistan; M. Awang and G. Abbas, U. Teknologi PETRONAS - Malaysia; and K. Farouque and S. Ahmed, Weatherford Oil Tool Middle East - Pakistan

OTC-24716-MS

[Wormlike Micelles as a Substitute of Polymeric Mobility Control Agent: Rheological Comparison](#)

S. Kumar, Weatherford Oil Tools Middle East - Pakistan, and M. Awang, G. Abbas and S.A. Kalwar, U. Teknologi PETRONAS

OTC-24717-MS

[Analysis of Windows of Opportunity for Weather Sensitive Operations](#)

Y.P. Foo, K. Gan, and D. Giudice, Saipem Singapore, and G.D. Masi, Saipem S.p.A

OTC-24718-MS

[Method to Assess the Overtrawlability of Pipe-in-Pipe](#)

J. Zheng and A. Palmer, National U. of Singapore, and P. Brunning, G. Lim and S. Sun, Subsea 7

OTC-24719-MS

[Design of the Surface Flow Test System for 1st Offshore Production Test of Methane Hydrate](#)

Y. Terao, Japan Oil, Gas and Metals National Corp.; K. Lay, AWT Intl.; and K. Yamamoto, Japan Oil, Gas and Metals National Corp.

OTC-24720-MS

[Ultra Deepwater Managed Pressure Drilling in Challenging Formations](#)

R. Malt, AGR Enhanced Drilling

OTC-24721-MS

[A Case Study Detailing the Design, Planning, Installation and Cost and Environmental Benefit Analysis of a Reinforced Thermoplastic Pipe Pulled Through the Inside of an Existing Offshore Steel Flow Line in the East Malaysia Samarang Field](#)

J.R. Wright Jr., Polyflow LLC; K.A. Karim, PETRONAS Carigali Sdn. Bhd.; and S. Kennedy, SCG Oil and Gas

OTC-24722-MS

[Weight Distributed SCRs with Quality Fabrication from Large Motion Floaters](#)

D. Karunakaran and R. Jones, Subsea 7

OTC-24723-MS

[Design and Analysis of Cellular Tendon for TLPs in Ultra-Deep Water Fields Offshore Southeast Asia](#)

J. Yu, INTECSEA WorleyParsons Group

OTC-24724-MS

[Stop Erosion at the Well Head on Fractured Wells](#)

T. Dreher, A. Biley and P. Tuckett, Process Group Pty. Ltd.

OTC-24725-MS

[Horizontal Appraisal Well Placement Best Practices to Develop New Oil Prospects in Clastic Reservoir of Cuu Long Basin](#)

C.L. Duy, L.D. Phong, X. Pottier and T.T. Anh, Cuu Long Joint Operating Co., and D. Permanasari, N. Yusuf, P.N. Thanh, G.I. Santoso, C.L. Fulton and D.L. Miguel, Schlumberger

TABLE OF CONTENTS

OTC-24726-MS

[Transforming Raw Subsea Sensor Data for Advanced Dynamic Positioning and Autonomous Functions in Real-Time for Asset Management and Remotely Operated Vehicle Operations](#)

M. Menon, Soil Machine Dynamics Ltd.

OTC-24727-MS

[Compact and Light Weight Equipment for Floating Production Systems](#)

E. Sellman, P. Mandewalkar and G.W. Sams, Cameron Process and Compression Systems

OTC-24728-MS

[Application of High Speed Valves/Actuators in Subsea Separator System](#)

S. Patil, G. Feng, and M. Ling, Aker Solutions Inc, and K.G. Eriksson, Aker Subsea AS

OTC-24729-MS

[New Elements in Geomechanics Submarine Rocks](#)

P. Ciobanu and L. Avram, Petroleum-Gas U. of Ploiesti

OTC-24731-MS

[TLP Motion Effect on Semisubmersible Motion](#)

H. Abyn, A. Maimun and Jaswar, U. Technology Malaysia; M.R. Islam, Bangladesh U. of Engineering and Technology; and C.L. Siow and B. Bodaghi, U. Technology Malaysia

OTC-24732-MS

[Multinomial Logistic Regression for Bayesian Estimation of Vertical Facies Modeling in Heterogeneous Sandstone Reservoirs](#)

W.J. Al-Mudhafer, South Oil Co.-Iraq & Louisiana State U.

OTC-24733-MS

[A New Method for Wettability Alteration by Use of Cold Atmospheric Pressure Argon/Oxygen Plasma Torch](#)

M.A. Heidari, Islamic Azad U.; A. Habibi, U. of Tehran; S. Ayatollahi, Shiraz U; and F. Sohbatzadeh, U. of Mazandaran

OTC-24734-MS

[Managing Life Extension Programs for Ageing Floating Offshore Facilities](#)

B. Gibbs and T. Graf, ABSG Consulting Inc.

OTC-24736-MS

[Analysis of Overpressure Mechanisms in a Field of Southwestern Malay Basin](#)

I.A. Satti, D. Ghosh and W.I.W. Yusoff, U. Teknologi PETRONAS, and M.J. Hoesni, E&P Technology Centre, PETRONAS

OTC-24737-MS

[Simulation Study for Smart Horizontal Wells Application in Maximising Oil Reserves for Malaysian Field EOR Thin Oil Reservoir](#)

M.M. Metwally, M. Faizal, R.B.A. Rashid and M. Rizal, PETRONAS E&P Technology Division

OTC-24738-MS

[Wettability Alteration by New Acid-Alkali-Surfactant-Polymer Formulation in High Salinity Carbonate Reservoirs](#)

S.A. Kalwar and K.A. Elraies, U. Teknologi PETRONAS; S. Kumar, Weatherford Oil Tools Middle East; and G. Abbas, U. Teknologi PETRONAS

TABLE OF CONTENTS

OTC-24740-MS

[The Use of Dope-Free Tubulars in Offshore Operations: Experiences and Benefits](#)

E. Actis Goretti, T. Castineiras, B. Giacomel and M. Merliahad, Tenaris

OTC-24742-MS

[Collapse Behaviour of As-Fabricated & Thermal Aged JCOE Line Pipe - Experimental Study by External Pressure Ring Collapse Testing and FE Analysis](#)

T.S. Kathayat, R.K. Goyal and J.R. Shant, Welspun Corp. Ltd.

OTC-24743-MS

[Experience and Lessons Learned from the Jet-In and Drill-Ahead Operation During Malaysia Deepwater Drilling Operations](#)

T. Maniam, K.M. Lim and S. Punniamoorthy, Baker Hughes

OTC-24744-MS

[FLNG Cold Sea Water Intake Risers](#)

A. Luppi and C. Saunier, SEAL Engineering, and D. Mayau, Trelleborg Industrie SAS

OTC-24745-MS

[Modelling and Imaging Through a Gas-Obscured Zone in Malaysia](#)

X. Zhu, S. Sood, T. McMahon, J. Brewer, R. Keys and C. Mosher, ConocoPhillips

OTC-24746-MS

[High Strength Low Alloy Steel for HPHT Wells](#)

M.J. Cancio, B. Giacomel, Gustavo Kissner, M. Valdez and F. Vouilloz, Tenaris

OTC-24747-MS

[Small idea, Big Savings - Open Drain Sump Caisson Design Modification to Prevent MIC \(Microbial Induced Corrosion\)](#)

R.K. Sunnapu, R.T.L. Tie, B.B. Maskawi and R.M. Arumugam, PETRONAS

OTC-24748-MS

[Lateral Buckling Design for Intermittently Buried and Spanning Pipelines](#)

C. Roberts and J. Taavale, S2V Consulting Pty Ltd.

OTC-24749-MS

[Advanced Technologies for Produced Water Treatment](#)

A. Hussain, J. Minier-Matar, S. Gharfeh, A. Janson and S. Adham, ConocoPhillips

OTC-24752-MS

[Coiled Tubing Deployed Electrical Submersible Pump \(CT-ESP\) Application at Offshore Operation](#)

H. Bakar, Ivan X. Chee, M.I.M. Rozali, M.Z.M. Nadzri, K.M. Ayad and J. Jaafar, PETRONAS Carigali Sdn. Bhd.

OTC-24753-MS

[3D Structural Restoration and Geomechanical Forward Modelling in a Visco-Plastic Medium to Natural Fracture Prediction in a Malay Producing Field, Offshore Malaysia](#)

M. Lefranc, A. Mohamad-Hussein, and C.P. Tan, Schlumberger; X. Legrand and B.C. Lee, PETRONAS Carigali Sdn. Bhd.; and L. Maerten, D. Press and L. Anis, Schlumberger

TABLE OF CONTENTS

OTC-24755-MS

The Comprehensive Application of Both Near-Bit and Surface Vibration Measurement to Quickly Identify Coalbed Boundary

W. Gao, X. Dou and L. Sheng, Drilling Research Inst. of CNPC, and Y. Liu, CNPC Bohai Drilling Engineering Co. Ltd.

OTC-24757-MS

Inflow Performance Relationship for Horizontal Wells Producing from Multi-Layered Heterogeneous Solution Gas-Drive Reservoirs

A.M. Khalid, S.A. Nuaim and M.H. Rammay, King Fahd U. of Petroleum and Minerals

OTC-24758-MS

Real-Time Production Surveillance Overcomes Challenges in Offshore Dual String Gaslift Wells in Baram Field, Malaysia

A.A. Kamis, S. Zulkifli and M.B.A. Rani, PETRONAS Carigali Sdn. Bhd., and S. Soni, J.A. Alvarez, C. Tello, C. Chuliwanlee, O. Iskandar, S. Barbarino, K. Konakom, M. Khan and J. Salazar, OVS Group LLC

OTC-24760-MS

Modelling and Prediction of Frac-Pack Tool Erosion in Multi-zone Wells

N.J. Clem, Z. S. Silva, A.M. McGuire and J. Imhoff, Baker Hughes Inc.

OTC-24761-MS

CFD Simulations and Experimental Validation of Sand Erosion on a Cylindrical Rod in Wet Gas Conditions

C.Y. Wong and J. Boulanger, CSIRO; M.S.A. Zambari and S.N.A. Shaffee, Group Technical Solutions PETRONAS; and Z. Johar and M. Jadid, PETRONAS Carigali Sdn. Bhd.

OTC-24762-MS

Well Test Characterisation of Naturally Fractured Vuggy Reservoirs, with a Global Optimisation Method

S. Gómez, IIMAS-UNAM; R. Camacho, PEMEX E&P; M. Vásquez, PEMEX E&P/IPN; G. Ramos and N. del Castillo, IIMAS-UNAM; and J.A. Mesejo, MatCom-UH

OTC-24763-MS

Feasibility of the Steam-Assisted-Gravity-Drainage Process in Offshore Heavy Oil Reservoirs with Bottom Water

X. Dong, H. Liu, Z. Zhang, C. Lu, X. Fang and G. Zhang, China U. of Petroleum-Beijing

OTC-24764-MS

Overcoming Lost Circulation While Cementing Riserless Tophole in Deepwater

R. Goncalves, A.F. Tajalie and A. Meyer, Schlumberger

OTC-24766-MS

CFD Study of Deep Draft Semisubmersible VIM

S. Lee, H. Chien and H. Gu, SIRC, ABS

OTC-24768-MS

Unique Cement and Spacer Design for Setting Horizontal Cement Plugs in SBM Environment: Deepwater Indonesia Case History

H.S. Farahani and A. Brandl, Baker Hughes

TABLE OF CONTENTS

OTC-24769-MS

[New Experimental Correlations to Predict Water-Oil Relative Permeability Curves Affected from Asphaltene Deposition](#)

A. Khanifar and M. Onur, U. Teknologi PETRONAS, and N. Darman, PETRONAS

OTC-24770-MS

[One-Trip Fluid Activation and Filter Cake Break in One Step for Shape Memory Polymer Sand Control System](#)

R. Garza, B. Liu and A. Sadana, Baker Hughes

OTC-24772-MS

[Application of Digital Core Analysis \(DCA\) and Pore Network Modelling \(PNM\) Based on 3D Micro-CT Images for an EOR Project in a Mature Oil Field in East Malaysia](#)

W.N.S.B.W.M. Zainudin and Z.M. Zain, PETRONAS Research Sdn. Bhd., and L. Riepe, PETRONAS Carigali Sdn. Bhd.

OTC-24774-MS

[The Effectiveness of Two-versus Three-start Helical Strakes in Suppressing VIV of Flexible Cylinder](#)

K.Q. Lee, A. Abu, P. Muhamad, U. Teknologi Malaysia; N. Kato, Osaka U.; and A. Sahekhaini and H. Abdullah, U. Teknologi Malaysia

OTC-24775-MS

[A Coiled Tubing Perforating Solution Incorporating a Gun Deployment System and Dynamic Underbalance Technique Improves Well Production in High Angle Deep Gas Wells in Saudi Arabia](#)

H. Al Jubran, J. Leal, S. Al BuHassan, S. Bolarinwa, W. Kharrat, D. Pulson and M. Barnawi, Saudi Aramco

OTC-24776-MS

[Effect of Sediment Type on Natural Gas Production from Hydrates](#)

M.I. Pallipurath, T.K.M. College of Engineering

OTC-24777-MS

[A Novel Model to Evaluate the Effectiveness of Polymer Flooding in Offshore Oilfield](#)

H. Jiang and F. Chen, China U. of Petroleum (Beijing); Y. Li, Changqing Oilfield, CNPC; W. Zheng, CNOOC Research Inst.; and L. Sun, China U. of Petroleum

OTC-24778-MS

[Calculation and Analysis of Operability Envelopes for Deepwater Drilling Riser System](#)

Y. Chang, G. Chen, L. Zhang, X. Liu and K. Liu, China U. of Petroleum

OTC-24779-MS

[Optimisation of Hydraulic Fracturing for Oligocene Reservoir Low Permeability Onshore Northern Vietnam-Proppant Selection](#)

T.N. Huu and W. Bae, Sejong U.; and N.X. Thao, Ha Noi U. of Mining and Geology

OTC-24780-MS

[An Investigation of Factors Influencing In-Situ Emulsion Stability](#)

W.N.A.W. Razak, Z.M. Zain, Y.S. Zhang and C.A.V. Muthiah, PETRONAS Research Sdn. Bhd.; F. Tusiman and V.H. Hamdan, PETRONAS Carigali Sdn. Bhd.; and H. Ohen, HPO Global

TABLE OF CONTENTS

OTC-24781-MS

Successful Application of Platform Based Hydraulic Fracturing in High-Pressure/ High-Temperature Tight Gas Sand in North Malay Basin

S. Abdelaziz and C. Ogueri, Halliburton; L.J. Armentrout, Z. Salleh and M. Fernandez, Carigali Hess; and B. Ward, Hess

OTC-24782-MS

Using Riser Technology in a Mooring Connector

J. Shield, Subsea Riser Products

OTC-24783-MS

Deepwater Subsea Waterjet Impact on HSE

B. Kivisto, Chukar Waterjet Inc.

OTC-24784-MS

Successful Implementation of Through Tubing Technology (Sand Control and Gas Lift) in Challenging Offshore Environment as an Integrated Development Strategy for Sustainable Development of Marginal Fields: A Case Study

A. Sharma, A.K. Singh, S. Anand, A. Parasher, and A. Sharma, Cairn India Ltd., and S. Kale, Weatherford

OTC-24785-MS

Wheatstone Development - Challenges and Solutions in Formation Water Treatment and Disposal

M. Titley, Chevron Energy Technology Pty. Ltd.

OTC-24786-MS

Optimised Fatigue and Reliability RBI Program for Requalification, Life Extension and Integrity Management of Offshore Structure

A. Nezamian and E. Clarke, WorleyParsons

OTC-24787-MS

Study on Erosive and Magnetic Effects of Weighting Agent in a High Density Water-Based Drilling Fluid

L.L.Yan, J.H.Wang, X.G. Xu and J. Feng, Drilling Research Inst. of CNPC; H.J. Liang, Tarim Oilfield Co. of CNPC; and
X.N. Xing, Drilling Research Inst. of CNPC

OTC-24789-MS

Spatial AHP Enables Highly Effective Pipeline Routing Evaluations

C. White, N. Turner, K. Bacon, and A. Palejwala, INTECSEA, and K. Mower and S. McGee, WorleyParsons

OTC-24790-MS

Analytical Predictions and Field Observations in Liwan 3-1 CEP Jacket Installation

Y. Yuan, J. Lee, H. Yin, Y. Liu and H. Huang, China Offshore Oil Engineer Co., Ltd

OTC-24791-MS

Riser Integrity Monitoring for Offshore Fields

S. Blondeau, M. Andre, P. Garnier, S. Benmedakhene and J.J. Quesnel, Technip

OTC-24793-MS

Study of Various Water Alternating Carbon Dioxide Injection Methods in Various Injection Patterns in an Iranian Non-Fractured Carbonate Reservoir

M.A. Bagrezaie, Islamic Azad U.; P. Pourafshary, U. of Tehran (now with Sultan Qaboos U.); and S. Gerami,
National Iranian Oil Co.

TABLE OF CONTENTS

OTC-24794-MS

[Hydrodynamic Response of Spar with Disc](#)

J. Jose, R.P. Selvam and R. Sundaravadivelu, Department of Ocean Engineering, Indian Inst. of Technology Madras

OTC-24796-MS

[3D Seismic and AUV Data Integration for Deepwater Geohazard Assessment: Application to Offshore Northwest Borneo, Brunei](#)

G. Dan, Fugro Geoconsulting SAS; E. Cauquil, TOTAL SA; and J. Bouroullec, TOTAL Brunei

OTC-24797-MS

[Modelling the Shearing Effect of Flowing Fluid and Wax Ageing on Wax Deposition in Pipelines](#)

X. Zhang, A. Queimada, R. Szczepanski and T. Moorwood, Infochem-KBC

OTC-24798-MS

[Smart Gas Lift Valves Eliminate Multiple Slickline Trips in Gas Lift Operations](#)

Z. Xu, B.M. Richard and J.H. Kritzler, Baker Hughes

OTC-24799-MS

[A New Model for the Accurate Prediction of Critical Liquid Removal Based on Energy Balance](#)

X. Tan, X. Li, J. Liu, J. Zhao and J. Zhang, Southwest Petroleum U., and C. Tang, Shell China E&P Co. Ltd.

OTC-24800-MS

[Floating LNG is Coming of Age](#)

M.S. Choi, ConocoPhillips

OTC-24801-MS

[Effect of Time and Temperature on Crude Oil Aging to do a Right Surfactant Flooding with a New Approach](#)

M.A. Heidari, Islamic Azad U. (S&R Branch-Tehran); A. Habibi, U. of Tehran; S. Ayatollahi, EOR Research Center, Shiraz U.; M. Masihi, Sharif U. of Technology; and S. Ashoorian, Sharif U. of Technology

OTC-24802-MS

[Deep Water Hybrid Riser Systems](#)

A. Luppi and G. Cousin, SEAL Engineering, and R. O'Sullivan, Technip Oceania Pty. Ltd.

OTC-24803-MS

[Hydraulic Monitoring and Well Control Event Detection Using Model Based Analysis](#)

D. Todorov, TDE Thonhauser Data Engineering GmbH, and G. Thonhauser, U. of Leoben

OTC-24804-MS

[Chemical EOR Produced Water Management at Malay Basin Field](#)

K.E. Najamudin, N.H. Halim, I.K. Salleh, I.C.H. Chai, M.Y. Yusof and M.F.Sedaralit, PETRONAS

OTC-24805-MS

[Fatigue Analysis of OCTG Premium Connections: Theory, Laboratory Testing and Application](#)

G.R. Jordan, M. Merliahm, S. Grittini and G. Mazzaferro, Tenaris

OTC-24807-MS

[Kinetic Hydrate Inhibitor Removal by Physical, Chemical and Biological Processes](#)

S. Adham, S. Gharfeh, A. Hussain, J. Minier-Matar and A. Janson, ConocoPhillips

TABLE OF CONTENTS

OTC-24808-MS

[Design, Fabrication, Delivery and Installation of TLP Tendons for South East Asia](#)

V.R. Tekumalla and C.K. Yang, Technip MBH Hull Engineering Sdn. Bhd.

OTC-24809-MS

[Floating Production Solutions for South East Asia](#)

M. Spilker and A. Katarya, TMH Kuala Lumpur

OTC-24811-MS

[Through Tubing Perforation Through 3 Barriers; Tubing Plus Two Casing](#)

O.Z. El Abdein and Z.B. Yahia, PETRONAS Carigali Sdn. Bhd.

OTC-24812-MS

[Vortex Induced Vibration and Thermal Cycle Analysis of a Complex Subsea Clad Jumper](#)

D. Zhao, N. He, X.H. Feng, H. Yang and G.M. Sun, Offshore Oil Engineering Co., Ltd.

OTC-24813-MS

[Identifying and Assessing Productivity in CO₂ Bearing Gas Zones Using Wireline Logging and Testing Data](#)

R. Courel, T. Cartwright and R. Herries, Mitra Energy Ltd., and I.M. Gok and P. Millot, Schlumberger Oilfield Services

OTC-24814-MS

[Application and Study of Permeability Testing Method of High Rank Coal Bed Methane](#)

X. Zha, CNPC Drilling Research Inst./China U. of Petroleum; X. Lai, CNPC Drilling Research Inst.; X. Zhao, China U. of Petroleum, Beijing; J. Feng, W. Huang and B. Hui, CNPC Drilling Research Inst.

OTC-24815-MS

[Finite Element Studies for Assessment of Collapse Modelling Methodologies for Unbonded Flexible Pipes](#)

B. Edmans, Lloyd's Register Global Technology Centre

OTC-24817-MS

[New Design Method of Multi-Stage Hydraulic Fracturing in Shale Horizontal Well](#)

J. Guo, B. Gou and T. Yu, Southwest Petroleum U., and J. Yi, Sinopec Jiangnan Oilfield

OTC-24818-MS

[Analysis on Water Breakthrough Mechanism in an Offshore Heavy Oil Reservoir with Bottom Water](#)

G. Pan, W. Wang, C. Liu, Z. Wu and G. Li, Exploration and Development Research Institution, Tianjin Branch of CNOOC Ltd.

OTC-24819-MS

[Gas Hydrates Extraction by Swapping-Depressurisation Method](#)

A. Gupta and A. Aggarwal, Indian School of Mines Dhanbad

OTC-24820-MS

[Proppant Fracturing for Creating Conductive Dendritic Fractures in Repeatedly Acid Stimulated Limestone Water Injection Wells of Indian Offshore: Traditional vs Complex Fracturing Technique](#)

K. Medavarapu, P.K. Mahato, S. Das, S.K. Singh, K.W.S. Rajendra and A. Nandan, ONGC

TABLE OF CONTENTS

OTC-24821-MS

[The Risk of Cryogenic Liquid Exposure Could Have Been a Show Stopper for FLNG \(Floating Liquified Natural Gas Production and Storage\) Projects: How Did the Industry Respond?](#)

R. Wade, Intl. Paint / AkzoNobel

OTC-24822-MS

[Use of Sequential Downtime Analysis in Planning Offshore Operations](#)

E. Ballard and M. Evans, Orwell Offshore Ltd.

OTC-24823-MS

[Lazy Wave SCR versus Conventional and Bottom Wetted SCRs for Tying Back to a Spar “I” Tube](#)

A. Yu, P. Stanton and J. Caldwell, Genesis Oil and Gas

OTC-24824-MS

[Design and Optimisation of Riser Configuration Base on the Project EP24-2](#)

X. Qi, Y. Xie, Y. Luo, W. Zhu, W. Gao and H. Shen, COTEC Offshore Engineering Solutions

OTC-24825-MS

[Unlock Tight Gas Reserves in South China Sea by a Revolutionary Formation Tester](#)

H. Yang, S. Guo, and J. Cai, CN00C, and C. Xian and J. Chen, Schlumberger

OTC-24826-MS

[Energised Fluid Fracturing: A Case in Offshore Vietnam](#)

S.T. Dang, Sejong U.

OTC-24827-MS

[Special Challenges Designing and Installing Pipelines in Asia-Pacific with Emphasis on Seabed Geomorphology, Routing and Span Rectification](#)

P. Brunning and O. Vennemann, Subsea 7

OTC-24828-MS

[Optimisation of Autonomous Vehicles and Corresponding Docking Stations in Offshore Environment](#)

K.A. Soofi, ConocoPhillips; F. Lu, The U. of Texas at Austin; Z. Shu, The U. of Texas; and J. Hasenbein and D. Morton, The U. of Texas at Austin

OTC-24829-MS

[Drilling Operations in HP/HT Environment](#)

I. Ahmad, O. Akimov, P. Bond, P. Cairns, T. Gregg, T. Heimes, G. Russell and F. Wiese, Baker Hughes

OTC-24830-MS

[Ultra-HPHT Drilling Fluid Design for Frontier Deep Gas Exploration in South Malay Basin](#)

A. Witthayapanyanon, K. Chandramouleeswaran, A.B. Dollah, D. Clapper, R. Bland and A. Kongsawast, Baker Hughes, and M. Pepple, K.A. Nasrudin and M. Abshar, PETRONAS Carigali Sdn. Bhd.

OTC-24831-MS

[Successful Installation of a Completion System for Gas Migration Prevention](#)

C. Pleasants, B. Joseph, J. Glynn, A. Munshi and M. Knebel, Baker Hughes Inc.

TABLE OF CONTENTS

OTC-24832-MS

[Fit for Purpose Technology for Idle Well Reactivation - A Novel Application of Surface Jet Pump in Offshore Malaysia](#)

H.S. Hassan, R. Oktobaren and Z. Yahia, PETRONAS Carigali Sdn. Bhd.

OTC-24833-MS

[Applications and Performance of Trenching Technologies in Asia-Pacific](#)

P. Brunning, Subsea 7, and J. Machin, UTEC Geomarine

OTC-24834-MS

[Concept Evaluation of Concrete Floating Liquefied Natural Gas \(FLNG\)](#)

A. Nezamian and P. Morgan, WorleyParsons

OTC-24835-MS

[Centrifuge and Numerical Modelling of Reaming as Mitigation Measure for Spudcan-Footprint Interaction](#)

Hartono, National U. of Singapore; K.K. Tho, Fugro Singapore Pte. Ltd.; and C.F. Leung and Y.K. Chow, National U. of Singapore

OTC-24837-MS

[Finite Element Approach to Predict the Effect of Annular Pressure Buildup on Wellbore Materials](#)

S.R.K. Jandhyala and A. Chiney, Halliburton

OTC-24839-MS

[Optimised Platform Placement to Cover All Geological Targets in Baronia Field](#)

M.A. Sofian, C. Leuranguer and N.F. Musiran, PETRONAS Carigali Sdn. Bhd., and A.F.A. Saifuddin, T. Wong and I. Kardani, Halliburton

OTC-24840-MS

[Validation and Verification of Large-Bore Tubing Retrievable Safety Valves for Gas Wells](#)

G.R. Thompson, Baker Hughes Inc.

OTC-24842-MS

[Effect of Lateral Soil Strength and Stiffness on Jacket Foundation Integrity and Design for South China Sea Sites](#)

N.W. Nichols and M.J. Rohani, PETRONAS Carigali Sdn. Bhd.; K. Mukherjee and M.S.B. Ayob, PETRONAS, Group Technical Solutions; and C.J.F. Clausen and T. Lunne, Norwegian Geotechnical Inst.

OTC-24843-MS

[Foundation Integrity: Shallow Gas Mitigation Using the XPP Monitoring Tool – An Offshore Malaysia Case History](#)

M.J. Rohani and A.R. Azam, PETRONAS Carigali Sdn. Bhd., and J.M. Strout and T. Lunne, Norwegian Geotechnical Institute

OTC-24844-MS

[Improving Production in a Brownfield by Optimising the Placement of Horizontal Water Injector in Thin Clastic Reservoir: A Case Study from Malay Basin](#)

M.S.R. Jamaluddin, L. Hanalim and W. Suwarlan, PETRONAS Carigali Sdn. Bhd., and D. Permanasari, G.I. Santoso, E. Brahmanto, M.M. Lwin and K.A. Alang, Schlumberger

TABLE OF CONTENTS

OTC-24847-MS

[Improved Zonal Isolation in High-Temperature Offshore Wells with an Advanced Lightweight Cement Design - Gulf of Thailand Case Histories](#)

A. Brandl, V. Valentino, G. Fauchille, H. Syed, G. Dean and R. Stanley, Baker Hughes

OTC-24848-MS

[Housings, Closures, and Connectors for Underwater Instruments](#)

A.J. Williams 3rd, Woods Hole Oceanographic Institution

OTC-24851-MS

[Subsurface Containment Assurance Program: Key Element Overview and Best Practice Examples](#)

R.A. Schultz, L.E. Summers, K.W. Lynch and A.J. Bouchard, ConocoPhillips

OTC-24852-MS

[Importance of Thermal/Stress Loading Analysis for Tubulars in HPHT Wells](#)

N. Shahreyar and D. Finley, Halliburton

OTC-24853-MS

[Influence of Temperature on Gel Treatment Under Various Reservoir Wettability Conditions](#)

G.X. Shen, J.H. Lee and K.S. Lee, Hanyang U.

OTC-24856-MS

[Volumetric Hardening in Axial Pipe Soil Interaction](#)

V.B. Smith, Norwegian Geotechnical Inst. and D.J. White, U. of Western Australia

OTC-24857-MS

[Jack Up Suitability for South China Sea Sites](#)

N. Chan, Fugro Singapore Pte. Ltd., and M.J.B. Rohani, R.B.M. Hazizy, A.B.A. Rahman and A.B.A. Jalil, PETRONAS Carigali Sdn. Bhd.

OTC-24859-MS

[Assessment on Semi-Submersible Drilling Unit with Fatigue Cracks](#)

X. Wang, Z. Cheng, J. Kuang and H. Gu Singapore Innovation and Research Center, ABS

OTC-24861-MS

[An Experimental Study on Vertical Oil Storage System](#)

Z. Cai, J. Wang, Z. Li and D. Wang, Shanghai Jiao Tong U.

OTC-24863-MS

[Improved Soft String Model for Non-Buckling Horizontal Section Drill String Torque Modelling of Changbei Project](#)

Y. Liu, E. Gao, H. Jamshidian, S. Tayalan, Shell China E&P Co. Ltd., and J. Wang, Z. Lu and L. Luo, PetroChina Changqing Oilfields Co.

OTC-24864-MS

[Mitigation of Well bore problems using Non Invasive Fluids](#)

S.V. Namala, Pandit Deendayal Petroleum U.

OTC-24866-MS

[High Pressure, High Temperature, High CO₂ Reservoir Fluid Properties](#)

N. Mohmad and A.T. Morland, Carbonate Evaluation & Development Centre, PETRONAS Carigali

TABLE OF CONTENTS

OTC-24867-MS

[Ultimate Gas Recovery by Use of Full Field Simulations in Concept Selection Phase](#)

T.B. Irmann-Jacobsen and B. Headridge, FMC Technologies AS

OTC-24868-MS

[Improving Reliability of Multi-Zone Fracturing Treatments While Optimising Efficiency](#)

N.Carrejo, H.Wibowo, B.J. Salinas, Z. Xu and S.L. Gaudette, Baker Hughes

OTC-24870-MS

[The Tethered Catenary Riser Concept Application to Deepwater Fields in Asia](#)

J. Legras, Subsea 7, and N. Neel, SapuraAcergy/Subsea 7

OTC-24871-MS

[The Effect of Appurtenances on the VIM Performance of a TLP for Southeast Asia](#)

J.H. Tan, Y. Teng, A.R. Magee and B.T. Ly, Technip

OTC-24872-MS

[An Integrated Sediment Mobility and Scour Assessment: Characterisation, Calibration and Mitigation Studies for a Pipeline in the South China Sea](#)

L. O'Leary, Fugro GeoConsulting Ltd.; B. Spinewine, Fugro GeoConsulting Belgium; W. Haneberg, Fugro GeoConsulting Inc.; M. Clare and S. Thomas, Fugro GeoConsulting Ltd.; and H. Wu, China Oilfield Services Ltd.

OTC-24874-MS

[Riser VIV Suppression Device Test](#)

D.J.T. Ng, Y.J. Teng, A.R. Magee and N.B. AhmadZukni, Technip; S.B. Aramanadka, Sarawak Shell Bhd.; and A.M.A. Malik, A.S.A. Kader, N. Ismail and M.P. A. Ghani, U. Teknologi Malaysia

OTC-24875-MS

[Two degrees of freedom CFD Simulation of Vortex Induced Vibration of Two Circular Cylinder in Tandem Arrangements](#)

S. Jamei, A. Maimun, S.A. Ghazanfari, M. Tofa and Y.M. Ahmed, U. Teknologi Malaysia

OTC-24876-MS

[Optimisation of Drilling Parameters to Drill Wells Basement Formation in Offshore Vietnam](#)

T.N. Huu and W. Bae, Sejong U., and N.X. Thao, Ha Noi U. of Mining and Geology

OTC-24877-MS

[De-risking Hydrocarbon Prospects by Amplitude Versus Angle \(AVA\) Modelling and Attribute Analysis](#)

S. Rajput and M. Ring, Baker Hughes Inc.

OTC-24878-MS

[The Role of Seismic Inversion in Exploration and Development: Adding Value and Reducing Uncertainties](#)

S. Rajput and M. Ring, Baker Hughes Inc.

OTC-24879-MS

[Enhanced Multizone Single-Trip Sand-Control System Successfully Treats Six Zones in Offshore Indonesia Well](#)

L. Zhou and I. Gunawan, ConocoPhillips, and R. Jannise, C. Suire and T. Eiman, Halliburton

TABLE OF CONTENTS

OTC-24880-MS

[Permeability-Dependent Retention of Polymer in Heterogeneous Reservoirs](#)

B. Choi, K. Yu and K.S. Lee, Hanyang U.

OTC-24881-MS

[Development and Application of Type Curves for Pressure Transient Analysis of Multiple Fractured Horizontal Wells in Shale Gas Reservoirs](#)

T.H. Kim, S.J. Lee and K.S. Lee, Hanyang U.

OTC-24882-MS

[Challenges in Identifying and Quantifying Hydrocarbons in Thinly Bedded, Laminated, and Low-Resistivity Pay Zones](#)

S. Oifoghe, Baker Hughes

OTC-24884-MS

[Single-Trip Multizone Gravel-Packing Case History Improves Anticipated Production from the Berantai Field](#)

E. Damasena, C.S. Law and A.R. Sakamrin, Petrofac Energy Development; S. Rashid, PETRONAS PMU; and T. Kristanto and I.S. Rahyang, Halliburton Energy Service

OTC-24885-MS

[Comprehensive Rigsite Operations Surveillance for Better Drilling Efficiency](#)

A. Mohamad, M.L.M. Desa and Z.M. Ismail, PETRONAS, and H.S.H.H.A. Talib, I. Kardani, D. Deshamduli, A. Rosli and I.H.H. Salleh, Halliburton

OTC-24886-MS

[Using LWD Tools During Soil Boring Operation to Identify Offshore Geohazards](#)

I. Kardani, M.A. Askar, M. Bong, and R. Sidek, Halliburton, and M.H.B. Mokhtaza, Z.B. Muhamad, A.B.B. Zubir, and Y.T. Yap, PETRONAS

OTC-24890-MS

[Formation Testing: New Methods for Rapid Mobility and Pore Pressure Prediction](#)

Y. Zhou, Z. Hao, Y. Feng and Q. Yu, China Oilfield Services Ltd., and W. Chin, StrataMagnetic Software LLC

OTC-24891-MS

[Investigating the Dynamic 3D Loading Effects on Perforating Guns Imposed by Shaped Charges—Downhole Evaluation](#)

T.S. Glenn, M. Serra, and J.P. Rodgers, Starboard, and J. Wight, W. Zhang, G.G. Craddock, and K. Harive, Halliburton

OTC-24892-MS

[Utilising Aerogel in Effective Oil Spill Cleanup and Recovery](#)

Apoorv, Indian School of Mines

OTC-24895-MS

[The Effects of Initial Condition of Fracture Surfaces, Acid Spending and Acid Type on Conductivity of Acid Fracture](#)

A. Al-Momin, Saudi Aramco, and D. Zhu and A.D. Hill, Texas A&M U.

OTC-24896-MS

[Successful Coil Tubing Based Selective Stimulation of a Remote Well in Challenging Offshore Environment - A Case Study](#)

S. Anand, A. Parasher and A.K. Singh, Cairn India; S. Kale, Weatherford; and K. Gupta, Schlumberger

TABLE OF CONTENTS

OTC-24897-MS

[Well Test Analysis of Gas Condensate Reservoirs from Pressure Build Up and Draw Down Tests](#)

V. Khosravi, IAU of Science & Research, and S. Ketabi, Polytechnic U. of Turin

OTC-24899-MS

[Installation of Subsea Structures Using Mid-Size Construction Vessels in Harsh Environments](#)

T. Jacobsen and T.B. Næss, Subsea 7

OTC-24901-MS

[Design and Construction Challenges of Lan Do 13Cr Flowline System](#)

M. Sam, INTECSEA Sdn. Bhd.

OTC-24904-MS

[Short-Term Variability of Wind Measurements in South China Sea](#)

J. Muyau and K. Ewans, Sarawak Shell Bhd., and P. Jonathan, Shell Global Solutions

OTC-24906-MS

[Water Injection in Brown Field: Never Too Late](#)

B.M. Baruah and K.S. Chan, PETRONAS

OTC-24907-MS

[Insights into a New Super-Giant Gas Field - Sedimentology and Reservoir Modelling of the Coral Reservoir Complex, Offshore Northern Mozambique](#)

D. Palermo, M. Galbiati, M. Famiglietti, M. Marchesini and D. Mezzapesa, Eni UK, and F. Fonnesu, Eni E&P

OTC-24908-MS

[Unique Splitter Wellhead Design for Fit for Purpose Casing Design and Offline Work](#)

E. Damasena, Petrofac PED; Azrynzam, SapuraKencana; and H. Kasim, H. Ismail and A. Mos, Solar Alert

OTC-24910-MS

[Well and Reservoir Surveillance in Mature Gas Field Peciko and Its Application in Well and Reservoir Management](#)

C.A. Nathanael and S. Masitah, Total E&P Indonésie

OTC-24911-MS

[Stinger Stiffness and Its Effect on Deepwater Lay Analyses](#)

S. Gunawan, G. Lim and C.H. Lee, Subsea7

OTC-24912-MS

[Infield Transportation of High Content CO₂ Fluids](#)

C.T. Condat and S. Denniel, Technip

OTC-24913-MS

[Improved Numerical Simulation for Shale Gas Reservoirs](#)

C. Guo, M. Wei, H. Chen, X. He and B. Bai, Missouri U. of Science and Technology

OTC-24916-MS

[A Time Domain Update Method for Reservoir History Matching of Electromagnetic Data](#)

K. Katterbauer, I. Hoteit and S. Sun, King Abdullah U. of Science & Technology

TABLE OF CONTENTS

OTC-24918-MS

Centrifuge Model Study on Vertical Pullout Behavior of Square Plate Anchors in Normally Consolidated Clay

J. Chen, National U. of Singapore; K.K. Tho, Fugro Singapore Pte Ltd; and C.F. Leung and Y.K. Chow, National U. of Singapore

OTC-24919-MS

The Study of Nano Sealing to Improve the Brittle Shale Wellbore Stability Under Dynamic Load

C. Liang and M. Chen, China U. of Petroleum Beijing; B. Lu, Sinopec Research Inst. of Petroleum Engineering; J. Wang, Engineering Technology Research Inst., BHDC; Y. Jin and S. Yang, China U. of Petroleum Beijing; X. Hou, Sinopec Research Inst. of Petroleum Engineering; and B. Hou, China U. of Petroleum Beijing

OTC-24922-MS

Early Stage Geohazard Assessments in Tectonically Active Areas: Application to Potential Developments in South-East Asia

M. Clare and C.A. Smith, Fugro GeoConsulting Ltd.; G. Dan-Unterseh, Fugro GeoConsulting France; and B. Spinewine, Fugro GeoConsulting Belgium

OTC-24924-MS

Integrated Optimisation for Surface and Sub Surface Towards Maximising Production

S.A.Z. Abidin and N. Hussein, PETRONAS

OTC-24925-MS

Measured Wave Spectra Offshore Sabah & Sarawak, Malaysia

S. Amurof, K. Ewans and R. Sheikh, Sarawak Shell Bhd.

OTC-24927-MS

Condition-Based Pigging for Pipeline Network

S.Z. Abidin, A. Norman, A.K. Hing, N. Juzaimi, PETRONAS, and M. Ismail and M. Alias, PETRONAS Carigali Sdn. Bhd. Peninsular Malaysia Operations (PCSB PMO)

OTC-24928-MS

Integrated Dielectric and NMR Measurements in a Solution Workflow to Meet Fluid Typing Challenges in Clastic Reservoirs Drilled Using Synthetic Oil-Based Mud: A Case Study from the Malay Basin

K.K. Kyi and N.A. Dahlan, PETRONAS Carigali, and J. Quirein, E. Najm, D. Roy and K. Sillapasert, Halliburton

OTC-24929-MS

A Step Change in Managing Technical Integrity in the Oil and Gas Industry - A Case Study

I. Refsdal, Statoil ASA and E. Østby, DNVGL

OTC-24930-MS

CO₂ Separation from Natural Gas Through Hydrate Formation

M.S. Onn, A.A. Seman, Z. Kassim and M.A. Esa, PETRONAS

OTC-24931-MS

Regulatory and Safety Challenges of FLNG

C. Fagan, DNV GL

TABLE OF CONTENTS

OTC-24933-MS

Successful Development and Application of Sand Transport Correlation for Upstream Oil & Gas Application

M.S.A. Zamberi, S. Shaffee and C.K. Moh, PETRONAS; M. Jadid and Z. Johar, PETRONAS Carigali Sdn. Bhd.; and C.Y. Wong, CSIRO Process Science & Engineering

OTC-24934-MS

How to Increase Recovery of Hydrocarbons - Thanks to Subsea Processing

R. Marjohan, OneSubsea

OTC-24935-MS

CO₂ Removal from Natural Gas Using Membrane Contactor

Z.P. Chan, N.M. Yusop, and M. Abai, PETRONAS Research Sdn. Bhd., and S.M. Shariff and M.A. Ishak PETRONAS

OTC-24936-MS

Effective Slug Handling and Sand Separation Using Innovative Separator System

S.A.Z. Abidin and Z. Harun, PETRONAS, and A. Jothy, NGLTech Sdn. Bhd.

OTC-24937-MS

Numerical Simulation of Jet Excavation in Conductor Jetting Operations

T. Wang and H. Li, China U. of Petroleum

OTC-24938-MS

Global Ultimate Strength Assessment for Existing Offshore Jacket Structures

M.S. Ayob, A. E. Kajuputra, K. Mukherjee and B. S. Wong, Group Technical Solutions, PETRONAS

OTC-24940-MS

Advanced Well Performance Analysis and Monitoring in the Al Shaheen Field

D. Malakhov, M. Gunningham, Maersk Oil Qatar, and A. Al-Suwaidi and A. Al-Sadah, Qatar Petroleum

OTC-24943-MS

Innovative Bit Design Coupled with New Cutter Technology Improves PDC Bit Performance in Challenging Changbei Gas Field Application

Y. Li, K. Xun, and S.S. Yeong, Halliburton DBS; K. Suresh, Shell China E&P; N. Wang, J. Wang, H. Zhang, and P. Li, PetroChina Changqing Oilfield Co.; and L. Zhang, PetroChina Coalbed Methane Co.

OTC-24944-MS

Sand Fines Erosion and Asset Integrity Management

H.J. Subramani and L.D. Rhyne, Chevron Energy Technology Co., and D. Vedapuri, Tridiagonal Solutions Inc.

OTC-24945-MS

Miscible Flood Performance of Heterogeneous Layered Reservoirs: Considering Profile Control Through Controlled Fluid Movements

M. Ahmed, M.Z. Jaafar, W.R.W. Sulaiman and M. Hashim, U. Teknologi Malaysia

OTC-24946-MS

Riser and Pipeline Corrosion Risk Assessment

P. Carr, Peritus Intl. Inc.

TABLE OF CONTENTS

OTC-24947-MS

[Use of Platform Response Measurements from On-Line Monitoring \(OLM\) System to Verify the Effectiveness of Structural Repairs and Managing On-going Structural Integrity](#)

N.W. Nichols and H.M. Harif, PETRONAS Carigali Sdn. Bhd.

OTC-24948-MS

[FPSOS for Deepwater Applications](#)

Z. Su, Y. Luo, X. Qi and Y. Xie, COTEC Offshore Engineering Solutions

OTC-24949-MS

[The History of Hydrocarbon-Based Ultrafine Cement Slurry System for Water Shutoff in Offshore Mexico](#)

C. Deolarte and R. Zepeda, PEMEX, and V. Cancino, F. Robles, and E. Soriano, Halliburton

OTC-24952-MS

[Chemical Tracers for the Offshore Determination of Residual Oil Saturation](#)

M. Myers, C. White, C. Heath, B. Pejic and L. Stalker, CSIRO Earth Science and Resource Engineering

OTC-24953-MS

[Concept Proofing of Supersonic Nozzle Separator for CO₂ Separation from Natural Gas using a Flow Loop](#)

R.A. Samawe, K. Rostani, A.M. Jalil, M. Esa and N. Othman, PETRONAS

OTC-24954-MS

[ECA of High Pressure and High Temperature \(HP/ HT\) CRA Pipelines](#)

S.B. Kumar, S. Chong, R. Törnqvist, J.P. Tronskar, DNV GL Singapore, and M.O. Lai and W.L. Loh, National U. of Singapore

OTC-24955-MS

[Maintaining Wellbore Integrity in Steam Injection Wells Using Fit for Purpose Cement Systems in Oman](#)

B. Jain, M.A. Khattak, A.M. Mesa, S. Al Kalbani and J. Ahmed, Schlumberger, and S. Al Aghbari and N. Qassabi, Petroleum Development Oman

OTC-24958-MS

[Middle East to India Deepwater Pipeline \(MEIDP\) Crossing of the Owen Fracture Zone](#)

I. Nash, C. Burnett and S. Parry, Peritus Intl. Ltd.

OTC-24959-MS

[Should Subsea Pipeline Stability in North West Shelf of Australia be Designed Against 10,000-Years Return Period Storms? \(Preliminary Insight\)](#)

M.M. Ibrahim, S2V Consulting

OTC-24960-MS

[Trans-Horizon Digital Troposcatter Communications Link](#)

H.J. Wong, A.S. Zainudin and M.R. Khan, Talisman Malaysia Ltd.

OTC-24961-MS

[Kinetic Hydrate Inhibition Performance of MEG in Under-inhibition System: Reduction Opportunities of MEG Injection for Offshore Gas Fields Developments](#)

J. Kim, K. Shin, J. Kim, D. Chang and Y. Seo, KAIST, and K.P. Chang, Hyundai Heavy Industries

TABLE OF CONTENTS

OTC-24962-MS

[Effect of CO₂/H₂S on Corrosion Behavior of API 5L X65 Carbon Steel in High pCO₂ Environments](#)

A.M. Nor, M.F. Suhor, A.Z. Abas and S. Mat, PETRONAS Research Sdn. Bhd.

OTC-24963-MS

[Non-Metallic Materials in Supercritical CO₂ Systems](#)

A.Z. Abas, A.M. Nor, M.F. Suhor and S. Mat, PETRONAS Research Sdn. Bhd.

OTC-24964-MS

[An Effective Constitutive Model for Unbonded Flexible Risers](#)

D.C. Pham, T.F. Guo, Z. Zhang, and S. Narayanaswamy, Inst. of High Performance Computing, A*STAR, and B. Edmans, Lloyd's Register Global Technology Centre

OTC-24967-MS

[A Comparison of Modern and Miocene Reefs Using Kepulauan Seribu \(Indonesia\) and Central Luconia Province \(Offshore Sarawak, Malaysia\): A Key Understanding for Depositional Modelling](#)

T.A. Idi, PETRONAS Carigali Sdn. Bhd., and C. Jordan, Carbonate Evaluation & Development Centre

OTC-24968-MS

[Rigless Acid Stimulation in Deepwater Fields](#)

H. Kros, Oceaneering Intl.

OTC-24971-MS

[Lessons Learned from Pig Rescue Operations During Precommissioning of a 290 km Offshore Pipeline in Persian Gulf](#)

A. Tabatabaei, H. Tabassomi and M. Mahmoudi, IPEC Pipeline Engineering & Services

OTC-24974-MS

[High-Definition Resistivity Imaging of Low-Resistivity Formations Drilled with Nonconductive Mud Systems for Near-Wellbore Geological and Petrophysical Reservoir Evaluation](#)

F. Le, A.A. Bal, A. Besspalov, B. Corley, S. Forgang, R. Gold and G. Itskovich, Baker Hughes Inc., and G.R. Gaafar, PETRONAS

OTC-24975-MS

[Numerical Analysis on the Interaction between Two Zipper-Frac Wells Using the Continuum Damage Method](#)

X. Shen, Halliburton

OTC-24978-MS

[Advanced Global Nonlinear Dynamic Simulations of Flexible Riser Systems](#)

A. Majed and P. Cooper, INTECSEA

OTC-24979-MS

[25Cr Completion Campaign Successfully Meets Unusual, Highly Corrosive Reservoir Conditions - A Case History](#)

L.M.N. Adlan, M.E.I.B. Samad, G. Osuji-Bells, M.Z.B. Khalid, T.B. Setiawan and S. Rodhiah, PETRONAS Carigali Sdn. Bhd., and H.Z. Hamidy, S. Paramavathar and D. Madi, Halliburton

OTC-24980-MS

[Remote Control Systems Advance Offshore EPRS](#)

G. Lim, T.D. Williamson Inc.

TABLE OF CONTENTS

OTC-24981-MS

[ANN Powered Virtual Well Testing](#)

A. Aggarwal and S. Agarwal, Indian School of Mines

OTC-24982-MS

[Introduction to Innovative Non Intrusive Pipeline Inspection Technology](#)

M. Ashri, M. Shahrustami and N. Salwanie, PETRONAS Carigali Sdn. Bhd.

OTC-24983-MS

[Corrosion in Formate Brines - 20 Years of Laboratory Testing and Field Experience](#)

S. Howard, Cabot, and M. Chrenowski, Robert Gordon U.

OTC-24984-MS

[Managing Micro-Emulsion and Scale During ASP Flooding for North Sabah Field EOR](#)

N. Alwi, N. Borhan and J.M.B.M. Ibrahim, PETRONAS Research Sdn. Bhd., and S. Paramanathan and R. Bouwmeester, Shell

OTC-24986-MS

[Executing Brownfield Projects](#)

F. Visser and R. Brouwer, Shell Global Solutions Intl. B.V.

OTC-24987-MS

[Composite Abrasive Technology: A Key Part of New "Sustainable Commissioning" Process](#)

B.N. do Nascimento, Estaleiro Enseada de Construção Naval, and M. Ramli, Deleum Primera Sdn. Bhd.

OTC-24989-MS

[Geotechnical Design and Installation of Suction Anchors for the Goliat FPSO, Offshore Norway](#)

E. Solhjell, Ø. Blaker, and S. Knudsen, Norwegian Geotechnical Inst., and A. Rahim, NGL Inc.

OTC-24992-MS

[Process Stability of Multicomponent Refrigeration Trains for Floating LNG Application](#)

H.H. Hashim, F.I.M. Ali and A. Rusman, Group Technical Solutions, PETRONAS

OTC-24993-MS

[Study on Deepwater Drilling Riser Wear](#)

X. Liu, G. Chen, Y. Chang, L. Zhang and K. Liu, China U. of Petroleum

OTC-24994-MS

[An Integrated Approach to Understand the Remaining Potential and Ultimate Hydrocarbon Recovery of a Giant Carbonate Gas Field, Offshore Sarawak, Malaysia](#)

M.N. Rabani, E. Adams, A. Ryba, J. Harwijanto, G. Warrlich, H.F. Lee, D. Shields, A. Tan, A. Mukhopadhyay, X. Chai, A. Amir, D. Palm, B.S. Lee, G. Balakhrisnan, L.H. Khaw and W. van Zandvoord, Sarawak Shell Bhd.

OTC-24995-MS

[Water Source and Flow Direction Detection in a Heterogeneous Fracture Carbonate Reservoir: Challenge and Solutions - A Case Study in Indonesia](#)

S. Sanjaya, L. Quintero and M.S. Iyer, Halliburton, and S. Diametrica, F. Praveen, A. Soendaroe and Harkomoyo, Pertamina and Hulu Energi, West Madura Offshore (PHE-WMO)

TABLE OF CONTENTS

OTC-24997-MS

Riser Gas Risk Mitigation with Advanced Flow Detection and Managed Pressure Drilling Technologies in Deepwater Operations

J.S.S. Toralde and C.H. Wuest, Weatherford

OTC-24998-MS

Subsea Development of Marginal Deepwater Fields

J. Samad, INTECSEA (WorleyParsons)

OTC-24999-MS

Designing a High Resolution Chemical Surveillance Network in a Deepwater Field Off NW Borneo, East Malaysia

A. Armstrong, S. Hayon, S. Crowder, N. Buma and N.H. Bohari, Murphy Sabah Oil Co. Ltd.; T. Hayes, ConocoPhillips; E. Faevelen, Resman; and A. Ataei, PETRONAS

OTC-25000-MS

Floating LNG Development - Challenges and Achievements

H. Ahmad, I.R.A. Wahab and M.H. Suaib, PETRONAS

OTC-25002-MS

Deepwater Growth in Asia Pacific and Growing Regional Installation and Pipelay Vessels Capability to Meet the Challenges

B.K. Dash, SapuraKencana Petroleum Bhd.

OTC-25003-MS

Detection and Removal of Naphthenate Deposit in Oil Well

A.S. Mohamed, A. Goyal, M.D.M. Ismail, G. Munainni and J.K.A. Singh, Deleum Chemicals Sdn. Bhd., and M.Z. Ismail and M. Anwar, PETRONAS Group Technical Solutions

OTC-25004-MS

Model Inference Using Akaike Information Criterion for Turbulent Flow of Non-Newtonian Crude Oils in Pipelines

A.H. Kamel, U. of Texas Permian Basin, and A.S. Shaqlaih, U. of North Texas at Dallas

OTC-25005-MS

The Importance of Elemental Sulphur, Mercury and Condensate Identification in Sour Gas Field Development Project: Case Study

A. Nengkoda, M. Awwami, X. Cai, J. Mufleh, B. Harbi, M. Haas and A. Jarri, Saudi Aramco; R. Marriott, F. Bernard and P. Clark, Alberta Sulphur Research Ltd.; and A. Qureshi, Schlumberger

OTC-25006-MS

The Floating Liquefied Natural Gas Production, Storage and Offloading Technology Research

B. Xie, X. Liu, X. Yu, C. Wang and X. Zhu, CNOOC Research Inst.

OTC-25007-MS

Integrated Formation Evaluation in Laminated Reservoirs

R. Treballe, M. Okamoto, E. Chong, Petrofac Malaysia, and S. Haddad, S. Chouya, R. Dashti and W.W. Wa, Schlumberger

TABLE OF CONTENTS

OTC-25008-MS

[Cleaned Out a Mile of Formation Sands in a Highly Deviated Wellbore with a New Coiled Tubing Real Time Downhole Measurement System](#)

K. Rahimov and S. Smith, Baker Hughes

OTC-25009-MS

[The Future of Electric Controls: Trees and Subsea Processing](#)

C. Mahler and R. Awo, OneSubsea Germany

OTC-25010-MS

[Sandwich Cryogenic Pipeline](#)

T.M.B. Albarody and Z. Mustafa, U. Teknologi PETRONAS

OTC-25011-MS

[Minimising Uncertainty for Marginal Field Development by Maximising the Value of Appraisal Wells: Measuring Stress and Anisotropy in the Malay Basin](#)

M. Jones, Schlumberger; M. Reilly, Hess E&P Malaysia; and A. Donald, B. Heidari and A. Oo, Schlumberger

OTC-25012-MS

[Interval Pressure Transient Test and Stress Testing in Coal Bed Methane Wells Using Dual Packer Formation Tester: Case Studies from Indonesia](#)

G. Weatherall and D. Halinda, VICO, and S. Daungkaew, O. Suriyanto, C. Mas, and A. Islam, Schlumberger

OTC-25015-MS

[Development of a PDC-Tricone Hybrid Technology to Solve Drilling Problems of Surface Holes in North Africa](#)

W. Moujbani, OMV, and E. Aliko and N. Chaabane, Baker Hughes

OTC-25016-MS

[3-D Mapping for Fire and Gas Detection](#)

K.K. Chua and P.Y. Tan, PETRONAS

OTC-25018-MS

[Case Evaluating Acid Stimulated Multilayered Well Performance in Offshore Carbonate Reservoir: Bombay High](#)

A. Rawat, A. Tripathi and C. Gupta, U. of Petroleum & Energy Studies

OTC-25019-MS

[Reduced Erosion of Standalone Sand Screen Completion Using Flow Segmentisers](#)

M.S.A. Zambari and S.N.A. Shaffee, Group Technical Solutions, PETRONAS; M. Jadid, Z. Johar and I. Ismail, PETRONAS Carigali Sdn. Bhd.; and C.Y. Wong and C.B. Solnordal, CSIRO

OTC-25021-MS

[Requalification of Offshore Jacket Structures in Malaysian Waters](#)

M.S. Ayob, K. Mukherjee, A.E. Kajuputra, B.S. Wong and F.M. Salleh, PETRONAS, Group Technical Solutions

OTC-25022-MS

[Unconventional Approaches for the Unconventional Resources in Central China](#)

A. D' Amore and K.K. Hii, Shell China Ltd.; T. Moh, Z.Y. Chen, V.C. Phan, J.M. Lim, F. Tellez, J. Kok and A. Poor, Schlumberger; and B. Huang, CNPC CCDC DPRI

TABLE OF CONTENTS

OTC-25024-MS

Unconventional Shale Gas Drilling Comparison in Sichuan Basin, China Different Approaches Aim for Same Target

H. Sun, J. Bai, B. Huang and W. Chen, CNPC, CCDC, DPRI; Y. Hong, SCEPCo; T. Moh, Schlumberger; and F. Zhou, CNPC, SWOGC

OTC-25025-MS

Reliable Lashing Lines Fatigue Monitoring for a Tender-Assisted Drilling Unit

I. Prislín, BMT Scientific Marine Services; L. Chabot, Murphy Sabah Oil Co. Ltd.; L.H. Dean, BMT Scientific Marine Services; and T. Liu and W. Ye, Offshore Tech LLC

OTC-25026-MS

Multiple Identification in Surface Seismic Data through VSP Multiple Analyses: A Case Study

T. Human and S. Kunaifi, Halliburton, and A. Surasky, Talisman Energy

OTC-25027-MS

Solution to Cement Integrity Evaluation in Long-Extended Reach Wells: New Record in the South China Sea

J. Cai, Y. Gao, and M. Zhang, CNOC Ltd. Zhangjiang., and L. Cui and H. Guo, Schlumberger

OTC-25028-MS

Ultrasonic Gas Leak Detection

E. Sizeland and A. Croft, Groveley Detection Ltd., and A. Leong, Emerson Process Management AP Pte. Ltd.

OTC-25029-MS

Pipe End Round Forming Equipment and Control System - The Fundamental Solution for Reducing Welding Defects in Offshore Pipeline Constructions

T. Kishiguchi, H. Hosoda, Y. Ikuno, T. Ikezaki, M. Akasaka and T. Torii, Nippon Steel & Sumikin Engineering Co., Ltd.

OTC-25030-MS

Drilling Evolution of the Ultra Deepwater Drilling Campaign in Mexico, Perdido Fold Belt

V.G. Vallejo, A. Olivares, and O. Saavedra, Pemex, and J.R. Lopez and M.E. Torres, Schlumberger

OTC-25032-MS

New Advances of Formation Testing in the Extreme Tight Gas Reservoirs using new 3D Radial Probe: Case Study in South China Sea

J. Cai, S. Guo, and Y. Gao, CNOC Ltd., and J. Chen, C. Xian, P.K. Tellapaneni, and T. Zhang, Schlumberger

OTC-25034-MS

Influence of Local Effects on Fatigue Assessments During Hold Periods of Offshore Pipeline Installation by Reeling

A. Bedrossian and P. Brett, KW Subsea

OTC-25035-MS

Well Performance Workflow Automation: An Integrated Operations (IO) Approach to Unlock the Field Potential for Samarang Asset

M.Z.I.B. Ahmad and C.L. Sayung, PETRONAS Carigali Sdn. Bhd., and M.M. Salim, H.W. Lee, M.K.M. Som, J. Soriano, S. Biniwale, N. Vo Tri, S. Pedraza, K.K.H. Soh, R. Hermann, C.E. Lau, and R. Trivedi, Schlumberger

OTC-25036-MS

Recent Advances in the Analysis of Extreme Metocean Events

K. Ewans, Sarawak Shell Bhd., and P. Jonathan, Shell Global Solutions

TABLE OF CONTENTS

OTC-25037-MS

[Soil Strength Degradation Due to SCR's Vertical Motion at Touchdown Zone](#)

H.J.E. Hu, Fugro Singapore Pte. Ltd.; C.F. Leung, Y.K. Chow and A.C. Palmer, National U. of Singapore; and H.C.N. Chan, Fugro Singapore Pte. Ltd.

OTC-25038-MS

[Minimising the Uncertainty in Laminated Shaly Sand Evaluation Using Nuclear Magnetic Resonance, Multi-Component Induction, and Oil-Based Mud Imager Technologies—A Case Study in Offshore Terengganu, Malay Basin](#)

K.K. Kyi and Arthur J.W. Goh, PETRONAS Carigali, and J. Quirein, E. Najm, D. Roy and L.Y. Chung, Halliburton

OTC-25039-MS

[Welding Residual Stress and Pipeline Integrity](#)

R.Törnqvist, J. Wang, J.P. Tronskar and A. Mirzaee-Sisan, DNV GL

OTC-25040-MS

[Innovative Repair Solutions for Pipeline and Riser](#)

M.N.B. Mohd Ali Napih and S.L. Koi, PETRONAS

OTC-25041-MS

[Tension Leg Wellhead Platform for Non-Hurricane Environments](#)

O. Rijken, SBM Offshore

OTC-25042-MS

[Selecting a Safe and Reliable Drilling System for New Deepwater Challenges](#)

H. Brandt, DNV GL

OTC-25044-MS

[Hollow Glass Microspheres: An Option for Dual Gradient Drilling and Deep Ocean Mining Lift](#)

J. Halkyard and M.R. Anderson PE, Deep Reach Technology, Inc., and W.C. Maurer, Maurer Engineering

OTC-25046-MS

[Watertight Integrity Audits to Mitigate Risks of Progressive Flooding](#)

C. Wozniak, ABS Consulting, and J. Brekke, M. Unuvar and J. Rousseau, American Bureau of Shipping

OTC-25048-MS

[CO₂ from Southeast Asia to Brazil: Making Your Enemy Your Ally?](#)

B. Hauville, GéolVal; R.R. Terrazas, Brazilian Petroleum Inst.; and S. Henrique, U. Federal Fluminense

OTC-25049-MS

[Influence of CO₂ Nucleation Rate Towards Cryogenic Separation Technologies in Bulk CO₂ Separation from Natural Gas](#)

A.A.M. Jalil, K. Rostani, R.A. Samawe, N.A. Othman and M.A. Esa, PETRONAS

OTC-25051-MS

[Optimising Energy Footprint for Offshore CO₂ Separation, Transportation and Storage](#)

M.G.M. Noh, W.V. Hor, M.Y.J. Jalani and M.A. Mas'od, PETRONAS

OTC-25052-MS

[Frac Pack: Reviving and Maximising Production Potential in Cambay Offshore Field](#)

B. Patil, Cairn, and M. Ivanov and H.D.C. Shado, Schlumberger

TABLE OF CONTENTS

OTC-25053-MS

[Stuck Pipe Non Productive Time Reduction by Application of Intelligent Technologies to Replace Conventional Drillstring Separation Methods](#)

G. Hunter, Intelligent Drilling Tools Ltd., and A. Ollerenshaw, Cutting & Wear Resistant Developments Ltd.

OTC-25054-MS

[A Innovative Liquid Detection Sensors for Wet Gas Subsea Business to Improve Gas-Condensate Flow Rate Measurement and Flow Assurance Issue](#)

B. Pinguet, M.T. Smith, N. Vagen, G.M. Alendal and R. Rustad, OneSubsea, and C. Xie, Schlumberger

OTC-25056-MS

[Coupling Between Lateral and Torsional Vibrations: A New Insight into PDC Bit Drilling Inefficiencies](#)

N. Makkar, E. Sullivan and J. Habernal, Baker Hughes

OTC-25057-MS

[Offshore Installation of Technology of Puteri Heated Pipe-in-Pipe System in Malaysia](#)

R.S. Dhillon, SapuraKencana Petroleum Bhd.

OTC-25059-MS

[Coiled Tubing Downhole Communication System Helps Solve Complex Intervention Challenges](#)

E.P. Acorda, D. Sundramurthy, F. Stanley, A. Terry and G. Dean, Baker Hughes

OTC-25060-MS

[Small, Lightweight CTU Helps Enhance Production from Limited-Space Offshore Platform](#)

D. Sundramurthy, G. Dean, F. Stanley, and A. Terry, Baker Hughes, and O.Z. Abidin, Murphy Oil

OTC-25061-MS

[Orbital \(Fusion\) Welding for Small Bore Pipes](#)

L. Salleh, SapuraKencana Petroleum Bhd.

OTC-25062-MS

[Assessment of Coatings in High pCO₂ Environment for Pipeline Internal Coating Application](#)

M. Zakaria, A.S. Sauri, A.Z. Abas, S. Mat, M.F. Suhor, A.M. Nor and R. Kamarudin, PETRONAS Research Sdn. Bhd.

OTC-25063-MS

[Numerical Studies of Vortex Induced Vibration of a Circular Cylinder at High Reynolds Number](#)

M.M. Tofa, A. Maimun, Y.M. Ahmed, S. Jamei and N.M. Khairuddin, U. Teknologi Malaysia

OTC-25064-MS

[Novel Approach to Measuring Irreducible Water Salinity in Gas Reservoirs](#)

J. Bourdet and R. Kempton, CSIRO

OTC-25065-MS

[Advanced Ultrasonic Inspection of HDPE Welds](#)

I.G. Pettigrew, Oceaneering Australia Ltd.

OTC-25067-MS

[Increasing the Efficiency of Seismic Data Acquisition via Compressive Sensing](#)

C. Mosher, C. Li, L. Morley, Y. Ji, F. Janiszewski, R. Olson and J. Brewer, ConocoPhillips

TABLE OF CONTENTS

OTC-25068-MS

[Carbonate Pinnacle-Reef Velocity Modelling for Depth Conversion: Pitfalls and Best Practices](#)

S. Adli and H. Hafez, PETRONAS Carigali Sdn. Bhd.

OTC-25069-MS

[Establishing New Directional Casing While Drilling Benchmarks Reduces Top Hole Well Construction Costs, Offshore Malaysia](#)

D.I. Pickup, A. Harris and M.F.N.A.M. Nasir, Schlumberger

OTC-25070-MS

[Corrosion Inhibitor and Oxygen Scavenger for Use as MEG Additives in the Inhibition of Wet Gas Pipelines](#)

M.N. Lehmann, A. Lamm, H.M. Nguyen, C.W. Bowman and W.Y. Mok, Baker Hughes, and M. Salasi and R. Gubner, Curtin U. of Technology

OTC-25071-MS

[Offshore Geothermal Energy Utilisation: An Idea Whose Time Has Come?](#)

J.S.S. Toralde, Weatherford

OTC-25072-MS

[Numerical Study on Stress Concentration Factors at Splice Welds of Structural Steel Pipes](#)

Z.M. Qi, Southwest Guizhou Vocational and Technical College for Nationalities; Y.B. Zhang, Chongqing Jiaotong U.; Y. Chen, Delft U. of Technology; Y. Li, Chongqing Jiaotong U.; and R. Sadiq, U. of British Columbia

OTC-25455-MS

[“EC-Drill”- MPD Dual Gradient Drilling for Challenging Pressure Regimes](#)

R. Malt and R. Stave, AGR Enhanced Drilling

OTC-25457-MS

[Model Based Multiphase Metering and Production Allocation](#)

P. Patel and H. Odden, Kongsberg Oil & Gas Technologies, and B. Djoric, R.D. Garner and H.K. Veia, TOTAL E&P NORGE AS

OTC-25458-MS

[Flow Assurance Solutions and Control Systems for Long Step Out Subsea Production Systems](#)

E. Gharaibah and R. Parsons, GE Oil & Gas

OTC-25459-MS

[Continuous Motion Rig \(CMR Technology\) - A Step Change in Drilling Efficiency](#)

O.B. Skjærseth, WeST Drilling Product AS

OTC-25460-MS

[Prevention of Drilling Problems Using Real-Time Symptom Detection Based on Connected Physical Models](#)

B. Chmela, E. Abrahamsen and J. Haugen, Sekal

OTC-25462-MS

[Safe and Efficient Tophole Drilling using Riserless Mud Recovery and Managed Pressure Cementing](#)

R. Stave, P. Nordås, B. Fossli and C. French, AGR Enhanced Drilling

TABLE OF CONTENTS

OTC-25464-MS

[Åsgard Project - Another Step Versus the Full Subsea Process Plant](#)

S. Micali, Aker Solutions

OTC-25465-MS

[Subsea Water Treatment and Injection for IOR and EOR](#)

T. Hegdal and D. Pinchin, Seabox AS