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E.C. Vermolen, M.B. Pingo Almada, L.M. Wassing, D.J. Ligthelm, Shell Global Solutions International B.V.; S.K. Masalmeh, Shell Technology Oman LLC

**IPTC-17344-MS**

**NanoTechnology for Asphaltenes Inhibition in Cupiagua South Wells**

R.D. Zabala Romero, E. Mora, Ecopetrol SA; J. Patino, Petroraza; C. Cespedes Chavarro, Ecopetrol America Inc; C. Franco, Qatar Petroleum; F. Cortes, Universidad Nacional de Colombia - Medellín; O.F. Botero, Ecopetrol SA; L. Guarin, Ecopetrol S.A.; N. Ospina, Petroraza S.A.S.

**IPTC-17345-MS**

**Tectonics of the Mozambique Margin Through the Integration of Gravity and Magnetic Modelling: the Rovuma Basin Case Study**

M. Gilardi, G. Spadini, R. Longoni, Eni Agip Spa

**IPTC-17346-MS**

**Satellite derived Bathymetry and Digital Elevation Models (DEM)**

J. Siermann, Qatar Shell GTL Limited; C. Harvey, Qatar Shell Upstream International; G. Morgan, Shell Global Solutions International; T. Heege, EOMAP

**IPTC-17349-MS**

**An Abnormally High Pressure Zone have been detected to be the Culprit Of Many Well Integrity Issues in Dukhan Khuff Wells**

A.A. Sultan, Qatar Petroleum

**IPTC-17351-MS**

**Multi-agent Collaborative Decision Making for Upstream Asset Management**

P. Xu, ExxonMobil Upstream Research Company; N. Subrahmanya, ExxonMobil Research and Engineering Company; A. El-bakry, ExxonMobil Production Co.; C. Reynolds, ExxonMobil

**IPTC-17352-MS**

**Magnetic and Gravity Data Acquisition in Deepwater: A New Frontier for the Potential Field Geophysics**

G. Gabbriellini, G. Spadini, Eni E&P; E. De Marchi, M. Filippini, R. Finotello, D. Indrigo, Eni Tecnomare

**IPTC-17353-MS**

**Demonstrating the Competence of the Workforce**

J. Leuro, T. Kruger, Halliburton

**IPTC-17354-MS**

**Reduction Of The Carbon Footprint In Ammonia Production Through Petrochemical Plant Integration In Qatar**

S. Daghash, University of Qatar; F. Benyahia, Qatar University

**IPTC-17355-MS**

**Effective Management of Cathodically Protected Plant facilities in a Complex Gas Processing Plant**

J. Shanmugam, RasGas Company Limited; Z. Hazos, RasGas Company Limited

**IPTC-17356-MS**

**An Integrated Method of Subsurface Illumination Analysis for Shallow Gas Anomaly Data**

A. Abdul Latiff, D.P. Ghosh, Universiti Teknologi PETRONAS; Z. Tuan Harith, Herriot-Watt University

**IPTC-17357-MS**

**The Applications of Laser Technology in Downhole Operations - A Review**

A.W. Adeniji, KFUPM

**IPTC-17358-MS**

**A Novel Approach for Production Stimulation through Chemical Applications in A Saudi Arabian Offshore field**

H.B. Al-Qahtani, A. Balto, Saudi Aramco

**IPTC-17359-MS**

**Solving The Conflicting Dips Problem In Complex Media By Considering All Possible Dips In Crs Method**

A. Shahbazi, D. Ghosh, Universiti Teknologi PETRONAS; M. Soleimani, Shahrood University of Technology; J. Mann, Karlsruhe Institute of Technology

**IPTC-17360-MS**

**NMR Measurements for Pore Size Mapping at Fine Scale**

A. Valori, F. Ali, A. Al-Zoukani, Schlumberger Dhahran Carbonate Research center; R. Taherian, Schlumberger

**IPTC-17361-MS**

**Geared Centrifugal Pump (GCP) Technology Implementation in Petroleum Development Oman, as a potential Alternative Artificial Lift Method - Oil Wells**

A.S. Al-Bimani, A.I. AbdulElraouf, A. Al-Salmi, Z. Al-Hinai, Petroleum Development Oman; W.B. Morrow, Harrier Technologies Inc; R. Al-Masfry, Marjan Petroleum LLC - Oman

**IPTC-17362-MS**

**An Adapted Uncertainty Management Methodology and Tool for Fast-Track Approaches: Light-Up**

S. Ahn, Total SA; P. Schirmer, Total S.A.; E. Tawilé, TOTAL SA

**IPTC-17363-MS**

**Improving Collision Avoidance and Target Accuracy in an Offshore Brownfield Redevelopment Combining Gyros and In-Field Referencing**

H.A. Costeno Enriquez, M. Djohor, M. Raziyeve, H.L. Sessarego, B. Subroto, A. Ismail, Schlumberger; S. Lee, M. Mondali, PETRONAS Carigali

**IPTC-17364-MS**

**New Methods for Quantitative Reservoir Quality Prediction in Sandstones**

A. Ortenzi, A. Consonni, Eni E&P Division; C. Geloni, Eni E&P Division

**IPTC-17369-MS**

**Successful Implementation of Real Time Down-Hole Pressure-Temperature Monitoring using Fiber Optic Technology in Deep HT-HP Well in North Kuwait**

M.M. Kabir, Kuwait Oil Company; A. Siddiqui, A.K. Al-Jasmi, Q.A. Dashti, S.P. Pradhan, Kuwait Oil Company; R. Abid, Weatherford International



**IPTC-17371-MS**

**Role of Nanotechnology in Improvement of Drilling and Completion Operations**

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

**IPTC-17372-MS**

**New Erosion Resistance PDC Bit Coating Eliminates Balling in Water-Based Drilling Fluids, Saudi Arabia**

O. Alvarez, F. Almutair, H. Ghannam, Saudi Aramco; U. Hassany, Smith Bits, a Schlumberger Company; A. Samy, S.M. Siddik, Schlumberger

**IPTC-17375-MS**

**Innovative Coastal Research in Qatar: Improving Geological and Reservoir Modeling**

C.J. Strohmenger, J. Jameson, ExxonMobil Research Qatar

**IPTC-17376-MS**

**Mechanism and Application of Improving Heavy Oil Recovery Greatly by Solvent and Foam Assisted Steam Flooding**

S. Jianfang, SINOPEC Expl & Prod Rsch Inst; W. Guanghuan, Geology and Science Research Institute, Shengli Oil Field Co., Sinopec

**IPTC-17377-MS**

**Dynamic Reservoir Uncertainty Evaluation for Production Delivery Assurance**

M.A. Baslaib, A. BenSadok, H. Aarii, M. Espinassous, G. Bourdarot, M.B. Attia, Abu Dhabi Marine Operating Co.

**IPTC-17380-MS**

**Sand Management Strategy Using Reliability Engineering Analysis Techniques: A Case Study of an Angolan Ultra-deep Water Field**

T. Arubi, B. Blosser, G. Gall, BP Exploration Operating Co; E. Igwe, Shell Nigeria

**IPTC-17381-MS**

**Concentric Coiled Tubing Technology Revolutionizes Logging Sub-Hydrostatic, Single-Completion Wells**

M. Ababou, Baker Hughes Intl Inc; A. Shote, Baker Hughes Inc; T. Sturgeon, Baker Hughes

**IPTC-17382-MS**

**Qatargas Process Safety Program**

P.S. Saravanan, Qatargas Operating Company Limited

**IPTC-17385-MS**

**Flow Modeling and Comparative Analysis for a New Generation of Wireline Formation Tester Modules**

M.R. Kristensen, C. Ayan, Y. Chang, R. Lee, A. Gisolf, J. Leonard, Schlumberger; P-Y. Corre, Schlumberger; H. Dumont, Schlumberger

**IPTC-17386-MS**

**World's First Ever Tandem Slim 2.125 inch Coiled Tubing Tractor for ESP Openhole Completions**

J.O. Arukhe, L. Duthie, S. Ghamdi, S. Hanbazazah, H. Almarri, Saudi Aramco; B. Sidle, H. AlKhamees, WellTec

**IPTC-17387-MS**

**DIET: An Integrated Approach of Getting The Right Data and Maximizing its Value**

H. Al-Kharaz, M.Z. Farooqui, A.M. Ansari, D.W. Blackall, M. Martin, RasGas Co. Ltd.

**IPTC-17388-MS**

**Acoustic Velocity Measurements and Interpretation for Challenging Fluid Systems**

E. Lewis, B. Dindoruk, G. Odikpo, Shell International E&P Inc.

**IPTC-17389-MS**

**Active Field Development Without Harm to Saudi Arabia's Gulf Ecosystems**

J.O. Arukhe, S. Ghamdi, S. Hanbazazah, A. Ahmari, Saudi Aramco

**IPTC-17390-MS**

**Innovative Integrated Process Scheme For Native CO<sub>2</sub> Recovery**

C. Weiss, F. Pousse, K. Ghodasara, TOTAL; M. Linicus, E. Jüngst, S. Fränkle, Air Liquide Global E&C Solutions

**IPTC-17391-MS**

**Differentiating Between Oil-Base Mud Filtrate and Multiphase Formation Fluids Using Wireline Formation Testing Techniques: Case Studies from Saudi Arabia**

M.A. Al-Harathi, F. Kelly, F.N. Alenezi, Saudi Aramco; W. Soleiman, Halliburton

**IPTC-17392-MS**

**Rediscovering the Reservoir by Using New Logging Techniques in Mature Fields**

Z. Liu, Kinder Morgan; K. Kwong, R. Hull, I.R. Hunt, Halliburton

**IPTC-17393-MS**

**High-Resolution Distribution of Organic Matter in Carbonate-rich Oil Shales Controlled by Climatic Cycles and Depositional Environments**

B. Caline, TOTAL E&P; D. Dessort, Total; I. Billeaud, S. Cantaloube, P. Allix, J. Krafft, R. Le Van Loi, D. Duclerc, TOTAL E&P

**IPTC-17394-MS**

**Advanced Technologies For Produced Water Treatment And Reuse**

A. Hussain, J. Matar, A. Janson, S. Gharfeh, S. Adham, ConocoPhillips

**IPTC-17395-MS**

**SHE&S Excellence and Innovation for the Barzan Onshore Project**

B. Dehart, RasGas Company Limited. J. Brand, Japan Gas Corporation

**IPTC-17397-MS**

**Development of Choke Multiphase Flow Modeler**

A. Rahimzadeh, P. Mohammadmoradi, PETROPARS

**IPTC-17398-MS**

**Integrated Gas Management to Maximize Well Potential and Reserves within a Mature Oil Field**

E. Gunasan, A. Pearce, C. Blondeau, Total Abu Al Bukhoosh

**IPTC-17399-MS**

**Effective Wells Corrosion Mitigation in Two Major Middle East Fields: A Case Study**

M.S. Alzahrani, K.X. Senusi, D.R. Lewis, A.Y. Al Aty, F.A. Shinaiber, Saudi Aramco

**IPTC-17400-MS**

**Holocene Intertidal Microbial Mats Of Qatar And Their Implications For Petroleum Source Rock Formation In Carbonate-Siliciclastic-Evaporite Systems**

M. Slowakiewicz, University of Bristol; L. Thomas, School of Society, Enterprise and Environment, Bath Spa University; M.E. Tucker, S.D. Ooi, F. Whitaker, R.D. Pancost, University of Bristol

**IPTC-17401-MS**

**Using Wireline Formation Tester Pressure Survey to Validate and Fine-tune Model Building: A Case Study for a Multi-layered Mature Reservoir**

S.I. Badusha, A.M. Qamber, S. Al-Rashdan, A. Safar, A. Mahato, S. De, Kuwait Oil Company

**IPTC-17402-MS**

**Experimental Simulation Of Hydrocarbon Expulsion**

L. Schwark, M. Stockhausen, Kiel University; R. Galimberti, Eni SPA E&P Division; R. Elias, ENI E&P Division

**IPTC-17404-MS**

**Multifunctional Boronic Acid Crosslinker for Fracturing Fluids**

J. Holtsclaw, Halliburton; D.M. Loveless, Halliburton Energy Services Group; J.D. Weaver, Halliburton Energy Services Grp; J.W. Ogle, Halliburton Co.; R.K. Saini, formerly of Halliburton

**IPTC-17405-MS**

**Reservoir Quality Assessment From Clay Mineral Distribution in the Neogene of North Kuwait**

P.k. Mishra, B.H. Akbar, K. Ahmad, F. Ferdous, P.K. Choudhary, J. Javier, F.F. Abbas, Kuwait Oil Company

**IPTC-17407-MS**

**Recent Advances in Seismic Monitoring of Thermal EOR**

A. Mateeva, Shell Global Solutions, Int.; J.L. Lopez, Shell International E&P Co.; K. Hornman, Shell Global Solutions, Int.; P. Wills, Shell International E&P, Inc; B. Cox, Shell Canada Ltd.; D.A. Kiyashchenko, Shell International E & P, Inc.; W. Berlang, Shell Global Solutions Int.; H. Potters, Shell Global Solutions, Int.; R. Detomo, Shell International E&P Co.

**IPTC-17409-MS**

**Channel Fracturing Enhanced by Unconventional Proppant Increases Effectiveness of Hydraulic Fracturing in Devonian Formations of Russia's Oilfields**

R.E. Kayumov, A.A. Klyubin, A.S. Konchenko, A.V. Yudin, Schlumberger; A.A. Khalzov, V.V. Firsov, E.N. Nikulshin, Z.J. Kaluder, S. Sitdikov, ROSNEFT

**IPTC-17411-MS**

**High Resolution Sequence Stratigraphy Analysis in a Carbonate Reservoir from Borehole Resistivity Image: a Case Study from Tarim Basin, West China**

S. Yang, Schlumberger; C. Xiao, PetroChina; G. Wei, I. Le Nir, Schlumberger

**IPTC-17413-MS**

**ESP Well Surveillance using Pattern Recognition Analysis, Oil Wells, Petroleum Development Oman**

A. Awaid, Petroleum Development Oman; H. Muqbali, Petroleum Development Oman; A. AlBimani, Z. Yazeedi, H. Sukaity, K. Harthy, Petroleum Development Oman; A. Baillie, Engineering Insights Ltd

**IPTC-17415-MS**

**Gtl Efficiency**

A.S. Al-Tamimi, Qatar Petroleum

**IPTC-17416-MS**

**Syngas Technologies**

J.M. Al-Mulla, Qatar Petroleum

**IPTC-17417-MS**

**A Fresh Look at Thin-bed Prospectivity Within Conventional Shallow Water Clastic Plays; Implication for Significant Bypassed pay**

R. Dashti, Schlumberger; A. Dahlan, K. Kyi, PETRONAS Carigali Sdn Bhd; D. Basu, Schlumberger

**IPTC-17419-MS**

**Pore structure characteristics of non-marine shale in Ordos Basin, China**

C. Fang, M. Amro, TU Bergakademie Freiberg

**IPTC-17421-MS**

**What Happened To All My Gas?" P/z Plots In Layered Reservoirs"**

F.C. Ross, Qatargas Operating Company Limited

**IPTC-17422-MS**

**Multiphase Flow Meters Trial Testing in High GOR/GVF Environment**

A. Nasri, A.A. Al-Anizi, M.A. Al-Amri, F.T. Al-Khelaiwi, A.F. Al-Anazi, Saudi Aramco

**IPTC-17423-MS**

**An Evaluation of Production Casing Corrosion Due to Ingress of Sour Gas in the Tubing-Casing Annulus**

L. Morshidi, M.Z. Farooqui, RasGas Co. Ltd.; A. Kumar, S. Desai, J. Pacheco, ExxonMobil; M.A. Bugti, RasGas Company Limited

**IPTC-17424-MS**

**Identification and Origin of Tar-Mat in Permo-Triassic Dehram Reservoir, Khayam Field, SW Iran**

A. Ahanjan, M. Khaleghi, P. Hassanzadeh, National Iranian Oil Company

**IPTC-17425-MS**

**Optimizing Gas Facilities Maintenance Using Computerized Maintenance Management Systems (CMMS)**

D. Al Mutawa, Dolphin Energy Ltd.

**IPTC-17426-MS**

**Virtual Outcrop Geology - A Case Study on Effective Learning and Data Preservation**

A.F. AhmadZamri, A.S. Al-Mannai, RasGas Company Limited; C.J. Strohmenger, ExxonMobil Exploration Co.; J. Foeken, Qatar Petroleum

**IPTC-17427-MS**

**Utilization of Onsite Nitrogen Generation Technology as a Replacement for Conventional Liquid Nitrogen for Unloading Wells: a Novel and Cost Effective Alternative with Less Carbon Footprint on the Environment**

Y. Al-Abdulmohsin, A.M. Al-Shehri, I.M. El-Zefzafy, Saudi Aramco; A.K. Al-Mulhim, Saudi Arabia; H.A. Al-Khalifah, Saudi Aramco

**IPTC-17428-MS**

**Helium 2 - A New Dimension to Energy Resources**

M.S. Al-Harbi, RasGas Co. Ltd.

**IPTC-17429-MS**

**Determination of Reservoir Permeability Based on Irreducible Water Saturation and Porosity from Log Data and FZI (Flow Zone Indicator) from Core Data**

M. Fazel Alavi, Independent Consultant; M. Fazel Alavi, Senergy AS; M. Fazel Alavi, Kansas Geological Survey

**IPTC-17430-MS**

**Production Engineering and Geoscience Integration (PEGI) as an Integrated Tool for Reservoir Surveillance and Opportunity Generation for Dukhan Field, Qatar**

J.M. Negron, B. Dwiyarkoro, W. Hasan, A. Abuhelaiqa, Qatar Petroleum

**IPTC-17435-MS**

**Unlocking Small-Scale GTL: Cost-Effective Platform for Producing Drop-in Fuel From Syngas via a Single-Loop, Catalytic Thermochemical Process**

G. Boyajian, N. Li, H. Fang, M. Qin, R. Koros, A. Keller, E. Gal, Primus Green Energy

**IPTC-17436-MS**

**A Novel Approach for Characterising Reservoir Properties and Post-Stimulation Effectiveness in Multi-Layer Completions**

D. Chang, J.A. Gantt, ExxonMobil Upstream Research Company; H. Al-Kharaz, M. Berzou, RasGas Company Limited

**IPTC-17437-MS**

**Remaining Oil Saturation Determination in Dukhan Arab C and Arab D Reservoirs**

T.A. Wahlheim, W.H. Jamieson, ExxonMobil Production Company; A. Schnacke, J.R. Dixon, ExxonMobil Exploration Company; T. Attia, L. Barrios, M.N. Ab Majid, H. Silva, Qatar Petroleum; A. Trabelsi, Qatar Petroleum; M. Omar, Qatar Petroleum

**IPTC-17438-MS**

**Application of an Integrated Approach to Preserve Geologic and Seismic Consistency in a History Matching Workflow of a North Sea Chalk Reservoir**

H. Sudan, ConocoPhillips Co; E. Tolstukhin, ConocoPhillips Norge; L. Hu, ConocoPhillips Co

**IPTC-17439-MS**

**Emerging Technologies and the Future of Hydraulic Fracturing Design in Unconventional Gas and Tight Oil**

E.R. Fonseca, Shell Oil Co.

**IPTC-17440-MS**

**New Sour Gas Corrosion Inhibitor Compatible with Kinetic Hydrate Inhibitor**

C. M. Menendez, J. Jardine, W. Y. Mok, S. Ramachandran, V. Jovancevic, and A. Bhattacharya, Baker Hughes

**IPTC-17441-MS**

**Shifting Reservoir Development Focus to IWAG for a Matured Water Flood Case**

S.K. Shrivastava, PETRONAS Carigali Sdn Bhd; M.B. Rahim, A.N. Cheng Ho, R.B. Rasid, M.F. Sedaralit, PETRONAS

**IPTC-17442-MS**

**Development and Testing of Advanced Wireline Conveyance Technology for Rugose Open Hole Conditions**

A.F. Ahmad Zamri, RasGas Co. Ltd.; C.H. Myers, RasGas Company Limited; S. Ahmed, O. Abdelzaher, M. El-Ghammal, Texas A&M at Qatar; S. Remmert, Retired - ExxonMobil Development Company

**IPTC-17443-MS**

**An Assessment of the Influence of Micro-porosity for Effective Permeability Using Local Flux Analysis on Tomographic Images**

S. Norouzi Apourvari, C. H. Arns, University of New South Wales

**IPTC-17444-MS**

**Semi-Automatic Facies Up-scaling Technique for Litho-Seismic Classification - Application to a field located in Western Offshore Africa**

S. Sengupta, T. Cadoret, F. Pivot, Total; G. Federle, CGG

**IPTC-17446-MS**

**Ultrafast Determination of Archie and Indonesia m&n Exponents for Electric Log Interpretation: a Tight Gas Example**

N. Bona, E. Rossi, eni e&p; B. Bam, eni e&p

**IPTC-17447-MS**

**Estimation of Rock Compressive Strength Using Downhole Weight-on-Bit and Drilling Models**

P.B. Kerkar, Shell International Exploration and Production Inc.; G. Hareland, Oklahoma State University; E.R. Fonseca, C.J. Hackbarth, Shell International Exploration and Production Inc.

**IPTC-17450-MS**

**The Production of GTL Jet Fuel in Qatar**

A. Al Sharshani, Shell

**IPTC-17451-MS**

**Two Strategies for Attenuating Internal Multiples in Land Data**

M. Retailleau, CGG Subsurface Imaging; J. Shorter, H. Farran, Petroleum Development Oman; P. Hugonnet, T. Wah Hong, N. Benjamin, A. Pica, CGG Subsurface Imaging

**IPTC-17452-MS**

**Comparison of Probabilistic Techniques in the Study of Fluid Effects on Seismic Properties**

W. Ampomah, C. Her-Yuan, J. Assad, New Mexico Institute of Mining and Technology

**IPTC-17453-MS**

**Reservoir Rock Typing of Upper Shu'aiba Limestones, Northwestern Oman**

S. Al-Tooqi, N. Al Habsi, M. Al Shukaili, S.N. Ehrenberg, Sultan Qaboos University

**IPTC-17455-MS**

**A New Treatment Technique of Produced Water from Polymer Flooding**

X. Wang, Beijing University of Technology; R. Liu, Z. Shao, CNPC; J. H. Miller, EnsoChem; S. Wakasiki, National Petroleum; R. Lisana, Anthia EOR

**IPTC-17456-MS**

**Chemical Consolidation of Sand Propped Fractures in a Chalk Reservoir Offshore Denmark With Enzymatic Calcium Carbonate Scale**

M. Morkved, C. Knight, B. Bansal, A. Garcia Algora, W. Zhuang, Maersk Oil; H. Rohde, M-I SWACO; A.C. Nelson, M-I Swaco Norge A/S

**IPTC-17457-MS**

**Lattice Boltzmann Flow Simulations With Applications of Reduced Order Modeling Techniques**

D. Brown, J. Li, M. Ghommem, V. Calo, King Abdullah University of Science and Technology; Y. Efendiev, Texas A&M University

**IPTC-17458-MS**

**Production Monitoring by Intelligent Chemical Inflow Tracers in Long Horizontal Heavy Oil Wells for the Nikaitchuq Field, Northern Alaska**

M.D. Kuck, Eni Petroleum Co. Inc.; L. Nofziger, P. Gentil, eni Petroleum; E.S. Faevelen, ResMan AS

**IPTC-17460-MS**

**Dynamic Multiphase Kick Tolerance Allows Safe Drilling Which Led to Huge Gas Discovery in a HPHT Exploration Well in Malaysia**

S.W. Nas, SPT Group; W. Woo, B. Escalona Valera, A.E. Prasetya, Schlumberger; Y. Yap, PETRONAS Carigali Sdn Bhd; I. Umar, Petronas Carigali Sdn. Bhd.; M. Ab Murad, PETRONAS Carigali Sdn Bhd

**IPTC-17461-MS**

**TOTAL E&P Consideration of new Technologies in Rotating Machines to Respond to the Requirements of Future O&G Developments**

B. Quoix, A. Gelin, TOTAL

**IPTC-17462-MS**

**A Parametric Study on Completion Design in Shale Reservoirs Based on Fracturing-to-Production Simulations**

C. Cohen, S. Kamat, T. Itibrout, H. Onda, X. Weng, O. Kresse, Schlumberger

**IPTC-17463-MS**

**Post-Production Heavy Oil Operations: A Case For Partial Upgrading**

T.M. Lokhandwala, M. Barrufet, Texas A&M University

**IPTC-17465-MS**

**A Comprehensive Approach of Well Integrity Surveillance**

M.N. Al-Khamis, F.T. Al-Khelaiwi, M. Hanabi, Saudi Aramco; K.S. Al-yateem, Saudi Aramco International; A. Al-qatari, H.A. Muailu, Saudi Aramco

**IPTC-17466-MS**

**Multiphase Drag Reducing Agents To Increase GOSP Production in Offshore Saudi Aramco: Field Applications**

N.A. Al Amri, H.B. Al-Qahtani, R.L. Al-Khalidi, M.A. Al-Amoudi, Saudi Aramco



**IPTC-17467-MS**

**Derisking Prerosetta Prospects In The Nile Delta Through Depth Imaging**

M. Andreolli, N. Bienati, E. Gentile, M. Manera, A. Tansini, Eni E&P

**IPTC-17469-MS**

**Online Inspection & Clamping of Large Size Steam Headers (52" & 48") to Mitigate Steam Leaks from Multiple Weld Seams in Utilities Piping Systems**

S. Kumar, S. Selvan, RasGas Company Limited

**IPTC-17471-MS**

**Mauddud Fractured Reservoir Analysis, Greater Burgan field: Integrated Fracture Characterization using Static and Dynamic Data**

O.M. Alzankawi, R.A. Al-Houti, F.A. Abdulla, E.D. Ma, Kuwait Oil Company; M. Alessandrini, N.M. Alvis, Beicip FranLab

**IPTC-17472-MS**

**Implementation of Real Time Geosteering to Optimize Horizontal Drilling, Greater Burgan Field**

A. Al-Zuabi, H.A. Bahman, R.K. Kotecha, Kuwait Oil Company; B. Mereno, KOC; S.H. Al Sabea, Kuwait Oil Company; P. Mukherjee, A. Mudavakkat, KOC; O.M. Alzankawi, J. Al-hamoud, Kuwait Oil Company

**IPTC-17475-MS**

**Application of Artificial Neural Networks for Well Logs**

A. Kohli, P. Arora, University of Petroleum and Energy Studies

**IPTC-17476-MS**

**Uncertainty Quantification of Forecasted Oil Recovery using Dynamic Model Ranking with Application to a ME Carbonate Reservoir**

A. Singh, M. Maucec, G.A. Carvajal, S. Mirzadeh, S.P. Knabe, Halliburton; A.K. Al-Jasmi, I. Hossam El Din, Kuwait Oil Company

**IPTC-17477-MS**

**Ceramic Screens - An Innovative Downhole Sand Control Solution for Old and Challenging Cased Hole Completions**

A. Nadeem, BG Group; M. Lopez, BG Bolivia; S. Joly, ESK Ceramics; R. Jackson, ESK Ceramics; A. Strazzi, BG Group; S. Wildhack, ESK Ceramics

**IPTC-17478-MS**

**Dynamic 3D Imaging of Fluid Mobility in Natural Fractures Using High-resolution Positron Emission Tomography**

M. Maucec, R.G. Dusterhoft, Halliburton; R.D. Rickman, formerly of Halliburton; R. Gibson, Halliburton; A. Buffler, M. Stankiewicz, University of Cape Town; M. van Heerden, iThemba LABS

**IPTC-17481-MS**

**Treatment of Produced Water from Unconventional Resources by Membrane Distillation**

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

**IPTC-17482-MS**

**History Matching the Clean-up of a Well at the Oselvar Field Using a Transient Multiphase Flow Simulator**

B. Solvang, M.K. Krogstad, D. Lysne, A. Ashrafian, Weatherford Petroleum Consultants AS; E.A. Quale, DONG Energy AS

**IPTC-17485-MS**

**Integration of Downhole Fluid Analysis and Advanced Mud Gas Logging Reduces Uncertainty in Reservoir Evaluation**

Ko Ko Kyi, PETRONAS Carigali Sdn Bhd; Cheam Syeh Lynn, PETRONAS Carigali Sdn Bhd; Sammy Haddad, Schlumberger; Smail Chouya, Schlumberger; Wee Wee Wa, Schlumberger; Aleksandar Gligorijevic, Schlumberger

**IPTC-17486-MS**

**A Horizontal Drilling Breakthrough in Developing 1.5 m Thick Tight Gas Reservoir - Case Study in Risk Uncertainty Management, Ordos Basin, North China**

H. Pranata, Shell China Exploration and Production Co. Ltd; I.V. Rukachev, Schlumberger Trinidad Inc.; P. Wu, Petrochina Changqing Oilfield Co; O. Azwar, Schlumberger; W. Su, Shell China Exploration and Production Co. Ltd; P.M. Halomoan, Schlumberger; J. Li, B. Huang, Shell China Exploration and Production Co. Ltd; Y. Yang, G. Yi, N. Wang, Petrochina Changqing Oilfield Co

**IPTC-17487-MS**

**RFEC PIG Designed for Long Distance Inspection**

A.A. Mazraeh, F.B. Ismail, Asia Pacific University of Technology and Innovation; A.F. Alta'ee, Universiti Teknologi PETRONAS

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**Maximizing the Benefits of Real-Time LWD Data for Production Performance Prediction**

E.R. Okoroafor, S.A. Haq, Schlumberger; L. Ortenzi, Schlumberger Nigeria Ltd; W. Zhou, Schlumberger; A.B. Nkanga, Schlumberger Nigeria Ltd; I.A. Khattak, Schlumberger DCS; D.U. Okenwa, Schlumberger Nigeria Ltd

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**Open-Hole Fluid Displacement for Carbonate Stimulation in Liner Completions**

C.S. Mayer, R. Sau, C.E. Shuchart, ExxonMobil Upstream Research Co.

**IPTC-17491-MS**

**An Investigation of Diagenesis Related to the Top Surface of the Upper Shu'aiba Formation in Cores from Northwestern Oman**

N. Al Habsi, Shell Netherlands; S.N. Al-Tooqi, M. Al Shukaili, Sultan Qaboos University; S.N. Ehrenberg, The Petroleum Institute

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**Mitigating Hydrates in Subsea Oil Flowlines: Consider Production Flow Monitoring & Control**

A. Kanu, N. Al-Hajiri, Y. Messaoud, Qatar Petroleum; N. Ono, Qatar Petroleum Development Co. Ltd. (Japan)

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**Assessing Reservoir Fracture Potential over Kra Al-Marū, Rikṣah Structure in the Kuwait Gotnia Sub-basin**

Ramachandra Srigiriraju, Schlumberger; Ammar Heyam, Talal Fahad Al Adwani, Nikhil Banik, Bhaskar Chakrabarti, Ali Abu Ghneej, and Moustafa Alaa; Kuwait Oil Company; Aimen Amer and Awni Jaradat, Schlumberger

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**CNG Application in Qatar**

A. Kafood, Qatar Petroleum

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**From a Project-oriented to an Operations-focused organization - The case of QG OPCO Well Engineering and Intervention Division**

T. Paez, Qatargas

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**Challenges in Uninterrupted Production and Supply of Gas to Mega LNG Trains**

P. Kumar, S. Mitra, Qatargas

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**Late Oligocene-Early Miocene Basin-Center Evaporites in Relationships to Multi-stage Tectonic Inversions in the Sinjar Trough, NW Iraq and NE Syria**

P. Tai, G.J. Grabowski, C. Liu, ExxonMobil Exploration Company; A.O. Wilson, Consulting Geologist; J. Kendall, ExxonMobil Exploration Company

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**Systematic Evaluation of Asphaltene Formation Damage of Reservoir Fluids from Lake Maracaibo, Venezuela**

A. Memon, Schlumberger; C. Borman, Schlumberger Canada Limited; M. Garcia, Petroregional del Lago SA; D. Reyes, Petroregional del Lago S.A.; J. Ratulowski, J. Gao, Schlumberger

**IPTC-17503-MS**

**The Field Tests for Measurement of Downhole Weight on Bit(DWOB) and the Calibration of a Real-time DWOB Model**

G. Hareland, A. Wu, L. Lei, University of Calgary

**IPTC-17504-MS**

**Dukhan Field CO<sub>2</sub> Injection EOR Pilot: Reservoir Modeling & Planning**

O. Ozen, T.A. Wahlheim, ExxonMobil Production Company; T. Attia, L. Barrios, M.N. Ab Majid, Qatar Petroleum; J.R. Wilkinson, Consultant

**IPTC-17505-MS**

**Karachaganak Brownfield Vs. Kashagan Greenfield: Analogues Or "Apples And Oranges"?**

C. Albertini, L. Bado, F. Bigoni, A. Francesconi, K. Imagambetov, G. Leoni, V. Tarantini, Eni E&P

**IPTC-17508-MS**

**Pushing Maximum Reservoir Contact Applications to New Limits in Tight Facies: A Case Study of Middle East's Highest Reservoir Exposure Producer**

M.A. Al-Suwailem, C. Verma, H.A. Nooruddin, R.F. Saleh, M.A. Zarea, Saudi Aramco

**IPTC-17509-MS**

**Gas Oil Ratio (GOR) Estimation Using Downhole and Surface Well Sensors**

H.A. Muailu, F.T. Al-Khelaiwi, F. Fallatah, A. Alfakher, Saudi Aramco

**IPTC-17511-MS**

**Production Optimization of Maximum Reservoir Contact Well, Part III: Field Tests with Acoustic-Tolerant Multiphase Flowmeter**

E. Al-Alyan, S.M. Al-Mutairi, F.M. Al-Subaie, Saudi Aramco; O.H. Unalmis, Weatherford; L.W. Perry, Weatherford Intl.

**IPTC-17512-MS**

**How to Manage CT operations in Hostile environment: Field Case Studies on CT Challenges in Deep HPHT High Sour Carbonate Formations**

P. Subban, H. Al-Bader, Y. Al-salali, V. Duggirala, M. Ayyavoo, A.R. Al-ibrahim, A. Rajkhowa, Kuwait Oil Company

**IPTC-17513-MS**

**Spatial Modeling of Jurassic Arab Reservoir Depositional Environments as a Guide to Reservoir Connectivity Anisotropies: An Example from the Dukhan Field, State of Qatar**

R.J. Stanley, H.A. Al-Ansi, J.H. Snow, L.J. Weber, Qatar Petroleum

**IPTC-17514-MS**

**Vertical and Horizontal Pressure Depletion Trends Captured by Ava Geostatistical Inversion Conditioned Reservoir Modeling: An Example From Late Messinian Lacustrine Turbidities Reservoirs, Nile Delta, Egypt**

R.D. Vaughan, M. Ali, A. Mustafa, RWE Dea Egypt; T. Adly, Suez Oil Company Egypt; D. Sulistiono, A. Petrov, CGG-Jason

**IPTC-17516-MS**

**Assessment and Development of Wells Casing Integrity Program in an Offshore Field: A Case History**

M.N. Al-Khamis, K. Mei, Saudi Aramco; K.S. Al-Yateem, Saudi Aramco

**IPTC-17517-MS**

**Enhanced Reservoir Characterization with Horizontal Well Logs in Dukhan Field, Qatar**

P. Guo, ExxonMobil; A.M. Al-Naama, R.J. Stanley, A. Al-Sahlawi, B. Ekamba, H. Albotrous, Qatar Petroleum

**IPTC-17518-MS**

**Reservoir Simulation Design Strategy for Next-Generation Multi-level Assisted History Matching**

S. Mirzadeh, R. Chambers, G. Carvajal, M. Maucec, S.P. Knabe, Halliburton; A.K. Al-Jasmi, I. Hossam El Din, Kuwait Oil Company; A.P. Singh, Halliburton

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**Results from the Introduction of a New 3-d Radial Probe for Wireline Formation Testing in Western Siberia**

M Charupa, P Weinheber, A Tsiklakov, A Latypov, Schlumberger; VH Goitia, JR Caraballo, Repsol; A Pashinsky, Yamal SPG

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**Operational Excellence in Qatar's First Successful Rigless Heavy Duty Wireline Fishing in a Qatargas Offshore Unmanned Platform**

P.K. Das, Qatargas

**IPTC-17523-MS**

**A High Field Solid-State Nuclear Magnetic Resonance Experimental Study for Clay and Shale Swelling**

M.S. Alzahrani, Saudi Aramco, Colorado School of Mines; A.N. Tutuncu, Y. Yang, Colorado School of Mines

**IPTC-17524-MS**

**Field Study: Impact of Risk Mitigation Systems and Solutions on the Fluid Sampling Success Rate and E&P Project Economics of a Large North Sea Field Development Project**

H.C. Castillo, Baker Hughes Inc; P. Wills, PW Inc Limited; G.C. Scott, Nexen Petroleum UK Ltd

**IPTC-17525-MS**

**Deciphering the Impact of Subsurface Geology on Reservoir Quality Indicators: Petrophysical Evaluation from Niger Delta**

O. Ossai, Afren Plc; C. Cavalleri, C. Shrivastva, M. Claverie, Schlumberger

**IPTC-17526-MS**

**Coupled Static and Dynamic Modeling of a Jurassic Arab Formation Reservoir: Parameter Sensitivities and Impact on the Quality of History-Matched Simulation Outputs, Dukhan Field, State of Qatar**

D.J. Fenter, ExxonMobil Production Co.; R.J. Stanley, Qatar Petroleum

**IPTC-17528-MS**

**Fibre Optic Sensing For Improved Wellbore Production Surveillance**

J. Van Der Horst, Shell Global Solutions International BV; H. Den Boer, Shell; P. In 't Panhuis, Royal Dutch/Shell Group; B. Wyker, Shell; R. Al Mjeni, PDO; K.F. Awan, S.M. Al-Rajhi, Petroleum Development Oman; M.M. Molenaar, Shell Canada Ltd.; R. Kusters, D. Mustafina, L. Groen, A. Reynolds, Shell International E&P; R. Paleja, D. Randell, Shell Global Solutions UK; N. Bulushi, PDO; R. Bartlett, K. Green, OptaSense Ltd

**IPTC-17530-MS**

**Detecting Leaks in Abandoned Gas Wells with Fibre-Optic Distributed Acoustic Sensing**

K. Boone, OptaSense; A. Ridge, OptaSense; R. Crickmore, D. Onen, OptaSense

**IPTC-17531-MS**

**Upper Oligocene-Lower Miocene Carbonate and Evaporite Depositional Systems of the Northern Arabian Plate**

G.J. Grabowski, P.C. Tai, C. Liu, ExxonMobil Exploration Company; A.O. Wilson, Consultant

**IPTC-17532-MS**

**Transforming Seismic Reflection Data Into Quantitative Rock Properties by Seismic Inversion**

S. Rajput, Baker Hughes Incorporated

**IPTC-17533-MS**

**Processing and Preliminary Interpretation of the Ultra High-Density Full-Azimuth 3D Seismic Survey, Dukhan Field, Qatar**

S.R. Seeni, K. Setiyono, H. Zaky, J.H. Snow, L.J. Weber, Qatar Petroleum

**IPTC-17535-MS**

**The Systematic Closing of the Performance Gap in Hydraulic Fracturing**

M.J. Economides, University of Houston; V. Guk, Ruspetro LLC; D.S. Wolcott, M.N. Bychina, Ruspetro

**IPTC-17536-MS**

**Tight Reservoir Stimulation for Improved Water Injection - A Novel Technique**

M.Y. Alklich, B. Ghosh, The Petroleum Institute; E.W. Al-Shalabi, The University of Texas Austin

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**Dipole Shear Imaging behind casing: Extending the borehole Acoustic Imaging envelope to Brown-fields**

A. Srivastava, H. Yamamoto, S. Ahmed, J. Roberts, Schlumberger; F. Cantin, Total S.A.; O. MOREAU, Total; N. Bounoua, Qatar Petroleum

**IPTC-17538-MS**

**Identifying Opportunities in a Complex Mature Oil Reservoir; a Company's Experience**

E.A. Omara, Suez Oil Company; A.F. El hawary, RWE-dea; M. Nosseir, A. Samieh, M. Baydoon, Suez Oil Company

**IPTC-17539-MS**

**Challenges of Drilling HPHT High H<sub>2</sub>S Content Well Focusing Effective Well Control Measures with Consideration to SimOps**

F. Al-Qattan, M.A. Alam, Kuwait Oil Company

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**Automation of Well Modeling and Data Validation for Reservoir Simulation**

M.A. Al-Ismael, H.A. Nooruddin, Y.A. Al-Quhaidan, H.A. Al-Khawaja, Saudi Aramco; M. Shedid, INTEX

**IPTC-17543-MS**

**Adaptive Sobel Based Edge Detection for Enhanced Fault Segmentation**

A.A. Aqrabi, Schlumberger Information Solutions

**IPTC-17545-MS**

**A Receiver Array Evaluation Method Designed For Surface Based Microseismic Monitoring**

N. Aoki, E. Asakawa, S. Abe, JGI

**IPTC-17547-MS**

**Using Stochastic Seismic Inversion as Input for 3D Geomechanical Models**

T. Trudeng, X. Garcia-Teijeiro, A. Rodriguez-Herrera, J. Khazanehdari, Schlumberger

**IPTC-17548-MS**

**Basin-scale Simulators For De-risking of Unconventional Play-types: A Practical Approach to Enable In-time Decision Support**

M. Keym, Shell Global Solutions International; V. Dieckmann, Shell International; O. Podlaha, C. Bürger, O. Meuric, W. Senior, Shell Global Solutions International; P. Kuhn, Shell Global Solutions Int. B.V.

**IPTC-17549-MS**

**Blended Source/Nodal Ocean Bottom Seismic Acquisition**

C. Walker, D. Hays, FairfieldNodal

**IPTC-17551-MS**

**Complementary Data-driven Methods for Interbed Demultiple for Land and OBC Geometries**

E. Hager, S. Sonika, M. Garden, WesternGeco

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**Maximum Recovery of Gas Compression Waste Energy**

N.A. Ansari, S.A. Salu, Saudi Aramco

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**Fischer-Tropsch Synthesis in a Microchannel Reactor: The Influence of Co/SiO<sub>2</sub> Catalyst Structure on FTS Performance**

H.J. Robota, L. Richards, S. LeViness, S. Deshmukh, Velocys

**IPTC-17555-MS**

**Modeling Bitumen Presence and Its Impact on Reservoir Performance in the Arab D Reservoir, Dukhan Field, Qatar**

F. Hasiuk, Iowa State University; A. McKinney, ExxonMobil Canada Energy; F. Meek, ExxonMobil Development Company; B. Dwiyarkoro, Field Development / Qatar Petroleum; W.H. Jamieson, ExxonMobil Development Company; H.A. Al-Ansi, Oil Development, Qatar Petroleum; J.K. Miller, ExxonMobil Production Company

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**A Study of Acoustic Wave Propagation inside Cemented Production Tubings**

A.K. Farraj, University of Toronto; S.L. Miller, Texas A&M University; K.A. Qaraqe, Texas A&M University at Qatar

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**Well Structure Integrity Threat Due To Near Surface Corrosion of Outer Casing at Offshore Wells**

S. Pandey, S. Rana, A. Fakhro, Qatar Petroleum

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**Low Salinity Flooding: Experimental Evaluation and Numerical Interpretation**

S.K. Masalmeh, Shell Technology Oman; T. Sorop, B. Suijkerbuijk, Shell; E.C. Vermolen, Shell International Ltd.; S.G. Douma, Shell International E&P Co.; H.A. van del Linde, S.G. Pieterse, Shell Abu Dhabi BV

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**Stranded Gas Value Chain Development Challenges And Opportunities**

G. Shabbir, Saudi Aramco

**IPTC-17560-MS**

**Opening the Black Box: A Critical and Comparative Investigation of Solvers and Methods in Conventional and Next-generation Reservoir Simulators**

C. Temizel, Aera Energy; B. Hancioglu, Rice University; S. Purwar, S. Dursun, Halliburton; S. Tek, Incarnate Word University

**IPTC-17561-MS**

**Ensuring Safety Of Residents In An Emergency Planning Zone While Maintaining Sensitive Public Relations With The Affected Residents - Best Practices Shared**

E. Daher, D. Dowd, D. Pye, B. Wicker, United Safety

**IPTC-17563-MS**

**First Steps Toward Maturing the Shallow Gas Play - Results of an Integrated Exploration Workflow**

J.H. Ten Veen, H. Verweij, G. de Bruin, TNO; T. Donders, Utrecht University

**IPTC-17564-MS**

**Effective Utilization of Smart Oil Fields Infrastructure towards Optimal Production and Real Time Reservoir Surveillance**

K.S. Al-yateem, Saudi Aramco; F. Aminzadeh, University of Southern California; F.T. Al-Khelaiwi, K. Zorbalas, Saudi Aramco

**IPTC-17565-MS**

**Subsurface Cuttings Injection: Technical Challenges and Opportunities**

A. Maliardi, F. Cecconi, eni e&p; D. Simeone, eni operating US; S. Gumarov, T.A. Shokanov, V.V. Anokhin, S. Benelkadi, F. Bosisio, R. Mangiameli, M-I SWACO, a Schlumberger Company



**IPTC-17566-MS**

**Extended Elastic Impedance - A Time-efficient Workflow From Prestack Seismic Data, Through Rock Physics, To Reservoir Properties**

K. Westeng, Schlumberger; T. Hope, Noreco Norway AS; A.E. Rasmussen, DONG Energy

**IPTC-17567-MS**

**Origins of Evaporites in a Holocene Mixed Clastic and Carbonate Coastal Sabkha: Preliminary Hydrological and Geochemical data from Mesaieed Sabkha, Qatar**

S.M. Didi-Ooi, F.F. Whitaker, University of Bristol; J. Jameson, C.J. Strohmenger, ExxonMobil Research Qatar

**IPTC-17568-MS**

**On The Impact Of Depletion On Reservoir Seal Integrity: Geomechanical Model Application**

P.M. Schutjens, Shell India Markets Private Ltd; J.J. Ita, Royal Dutch/Shell Group; P. Van Den Bogert, Shell International E&P (Rijswijk); P. Bakker, F.J. Hermsen, J.M. Webers, E.W. Van Den Heuvel, Brunei Shell Petroleum Sdn Bhd; L. Watts, PDO

**IPTC-17569-MS**

**Modeling Tectonic Heat Flow and Source Rock Maturity in the Rub' Al-Khali Basin (Saudi Arabia), with the help of GOCE Satellite Gravity Data**

R. Abdul Fattah, S. Meekes, TNO; J. Bouman, DGF; J. Ebbing, NGU; R. Haagmans, ESA

**IPTC-17570-MS**

**Applying 3D Close the Loop and Probabilistic Seismic Inversion Techniques on the Tibr Asset in Petroleum Development Oman**

M. Scholten-Vissinga, Petroleum Development Oman; S.C. Chockalingam, Shell International Exploration and Production Inc; G.M. Tiller, Shell Exploration and Production Company

**IPTC-17572-MS**

**Integration of Petrophysical SCAL Measurements for Better Understanding Heterogeneity Effects in Carbonates: Case Study Using Samples from a Super Giant Field in Abu Dhabi**

S. Serag El Din, ADCO Producing Co. Inc.; M. Dernaika, Ingrain Inc; M.Z. Kalam, Abu Dhabi Co. Onshore Oil Opn.

**IPTC-17573-MS**

**Bridging the Gap Between Thermal Modeling of Sedimentary Basins and Potential Fields Modeling: Using Geophysics to constrain Hydrocarbon Charge Models In Data-Poor Frontier Areas**

L. Kennan, E. Hafkenscheid, N. Kuznetsova, M. Spaak, O. Meuric, O. Podlaha, Shell Global Solutions International b.v.; E. Biegert, Shell International Exploration and Production Inc.

**IPTC-17574-MS**

**Advanced Satellite InSAR Technology For Fault Analysis And Tectonic Setting Assessment. Application To Reservoir Management And Monitoring**

A. Tamburini, S. Del Conte, A. Ferretti, S. Cespa, TRE

**IPTC-17579-MS**

**Improvements of Sampling and Pressure Measurements with a New Wireline Formation Tester Module in Carbonate Reservoirs**

K. Cig, H.I. Osunluk, Schlumberger Middle East S.A.; R. Naial, T.M. Ihab, ADCO; A.Y. Al Baloushi, ADCO

**IPTC-17581-MS**

**A Joint Shell / ADCO Development of a Shared Earth Model (sem) to Support Further Development of a Giant Field, Onshore UAE**

B.D. Meyer, Royal Dutch/Shell Group; R.A. Nieuwenhuijs, Shell Global Solutions International BV; R. Bennett, Shell Global Solutions International B.V.; J.F. Brint, Shell Exploration & Production Co; A. Vizamora, Sakhalin Energy Investment

**IPTC-17582-MS**

**From Feasibility to Seismic Operations: A Time-Lapse Seismic Pilot Project on Al Khalij Field - Offshore Qatar**

Bruno Pagliccia, Fabrice Cantin Total E&P Qatar; Emmanuelle Brechet, Eddy Brosille, Benoit Blanco, Patrick Charron, Total S.A.; Michael Emang, Qatar Petroleum; Michel Radigon, CGG

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**Moving Beyond Realtime Operations Centres**

M. Laurens, M. Kales, Royal Dutch Shell

**IPTC-17584-MS**

**Statistical Analysis for Partial Inspection of Heat Exchanger Tube Bundles**

M.R. Alathba, Qatar Shell GTL; S. Terpstra, A. Ostrowska, F. Hoeve, Shell Global Solutions International; S. Kuniewski, Delft University of Technology; N. Laycock, R. Jones, Qatar Shell GTL

**IPTC-17585-MS**

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

W. W Mohd Zainudin, Z. Md Zain, PETRONAS Research Sdn Bhd; L. Riepe, PETRONAS Carigali Sdn Bhd

**IPTC-17586-MS**

**Interference Testing of Horizontal Producers and Injectors in the Huntington Field**

P.R. Nurafza, EON Exploration & Production; B. Al-shamma, E.ON Exploration & Production; W. Feng, EON Exploration & Production

**IPTC-17589-MS**

**Process Safety Management - A Prerequisite for Sustainable Gas Production**

K. Den Bakker, Shell

**IPTC-17590-MS**

**Conditioning of a Carbonate Reservoir Model Using Seismic data in an Offshore Upper Mishrif Field in the Middle East**

T. Pigeaud, Total EP Qatar; K. Philippe, Total EP France; M.I. Emang, Qatar Petroleum; E. Fetel, TOTAL E&P; K. Budkina, Total EP France

**IPTC-17593-MS**

**Methodology and Implications for Natural Fracture Network Modelling in a Carbonate Reservoir of Abu Dhabi**

M. Sirat, ADCO Producing Co. Inc.; G. Xi, Q. Ni, A. Mohamad Hussein, X. Zhang, Schlumberger

**IPTC-17594-MS**

**New Insights into Hydraulic Fracturing of Shale Formations**

A.M. Gomaa, Baker Hughes Ltd; Q. Qu, R. Maharidge, N. Scott, Baker Hughes; T. Reed, Baker Hughes

**IPTC-17595-MS**

**Geologically Guided Prestack Depth Imaging - a Case History From Greater Burgan, Kuwait**

K.M. Hafez, P.K. Mukherjee, A. Al-Ghareeb, M. Anandan, W.A. Zahran, Kuwait Oil Company; T. Saleh, Western Geco; C. Cunnell, Western Geco

**IPTC-17596-MS**

**Developing Disruptive and Revolutionary New Generation Seismic Technologies for the Middle East**

J. Hwang, G. Baeten, W. Walk, Shell Global Solution International

**IPTC-17598-MS**

**Nitrified Water as UBD Medium - Perfect Recipe for a Corrosion Nightmare: Issues and a Solution**

Iqbal Hussain, Dakhil Al-Enezi, Ali Al-Khaldy, Sulaiman Sulaiman, Sara Hayat, Kuwait Oil Company

**IPTC-17599-MS**

**Application Of Technologies For Improved Drilling, Hydraulic Fracturing, And Production Increase - Case Studies From Deep And High Pressure Gas Wells**

Z. Rahim, A. Al-Kanaan, H. Al-Anazi, Saudi Aramco; W.M. El-mofty, Packers Plus Energy Services Inc

**IPTC-17600-MS**

**Ordovician Source Rocks and Devonian Oil Expulsion on Bolide Impact at Siljan, Sweden - The Re-Os Story**

H.J. Stein, J.L. Hannah, G. Yang, AIRIE Program, Colorado State University, USA; M. Nali, R. Galimberti, Eni E&P, San Donato Milanese, Italy

**IPTC-17601-MS**

**Age and Composition of Source Rocks: New Steps toward Tracking Hydrocarbon Origin**

J.L. Hannah, H.J. Stein, G. Xu, AIRIE Program, Colorado State University, USA; R. Galimberti, M. Nali, Eni E&P, San Donato Milanese, Italy

**IPTC-17602-MS**

**An Integrated Approach to Carbonate Karstic Reservoir Characterization and its Application to a Field Case in the Tarim Basin**

X. Lu, Sinopec; H. Yang, PetroChina; F. Shen, Geo Reservoir Research Inc

**IPTC-17603-MS**

**Live Pressure Control Risk Analysis for Drilling Through Multiple Reservoirs**

H.C. Karlsen, T. Nilsen, Statoil ASA

**IPTC-17605-MS**

**Predictive Emission Monitoring Systems: Innovation in Measurement Technology**

A. Suliono, TOTAL EP QATAR; C. Sadois, Total E&P Qatar; M. Raja, J. Baldwin, Qatargas Operating Company Ltd

**IPTC-17607-MS**

**Crises Management in the Oil and Gas Industry**

G.C. Odemene, Walden University

**IPTC-17608-MS**

**Core Flood Analysis Of Acid Stimulation In Carbonates: Towards Effective Diversion And Water Production Mitigation**

O. Gharbi, Total E&P Qatar; S. Goedeke, Qatar Petroleum; M. Al-Sammaraie, Qatar Petroleum; S. Al-Shahwani, Qatar Petroleum; P. Cheneviere, Total E&P Qatar; N. Al-Mohannadi, Qatar Petroleum; P. Julien, Total E&P Qatar

**IPTC-17610-MS**

**Clad through Clad: A Mechanical Water Shut Off Solution for Commingled Production from Multilayered Reservoirs**

M. Sobirin, Total E&P Indonesia; S. Bourgoin, Total; A. Mahardhini, TOTAL E&P Indonesia Jl. Yos Sudarso; C.A. Nathanael, Total E&P Indonesia; M. Jones, Meta Downhole

**IPTC-17611-MS**

**Multi-zone Completion Design For Long Horizontal ERD Wells In Al Shaheen Field**

A.V. Balsawer, S. Hirani, P. Lumbye, A. Krog, V. Bonnell, Maersk Oil Qatar A/S; M. Rushdan, I. Abul-Hamd, Qatar Petroleum

**IPTC-17612-MS**

**The Role Of Regional Basement Fabric On Cretaceous Structural Deformation; A Case Study From Al Shaheen Field, Offshore Qatar**

V. Zampetti, Maersk Oil Qatar; L. Madsen, Maersk Oil & Gas A/S; H. Cromie, Maersk Oil; G.F. Durance, Maersk Oil & Gas A/S; M.I. Emang, N. Bounoua, T. Gagigi, Qatar Petroleum

**IPTC-17613-MS**

**Collaboration and Smart Fields - Experience from Global Scale-Up**

F.G. Van Den Berg, Shell International E&P Co.; G.A. McCallum, M. Graves, Wipro Technologies

**IPTC-17614-MS**

**A Novel Chemical Sand and Fines Control Using Zeta Potential Altering Chemistry and Placement Techniques**

P. Singh, Weatherford International Inc.; R.V. Petegem, Sr. Sand Control and Completions Consultant

**IPTC-17617-MS**

**Oil Production Optimization in an Integrated Digital Field: The KOC Burgan Pilot Project Experience**

A. Al-Jasmi, A. Choudhuri, Kuwait Oil Company; D.A. Joy, Weatherford

**IPTC-17618-MS**

**Detecting Asphaltenes by A Miniaturized EPR Sensor**

X. Yang, M. Tavakkoli, W. Chapman, A. Babakhani, Rice University

**IPTC-17619-MS**

**Technological Evolution In Natural Gas Plant Automation**

N. Dey, Qatar Petroleum

**IPTC-17620-MS**

**New Structural Evolution Model for the North Kuwait Carbonate Fields and its Implication for Fracture Characterisation and Modelling**

P.D. Richard, Shell International; L. Bazalgette, Petroleum Development Oman; V.K. Kidambi, Kuwait Oil Company; K. Laiq, Schlumberger; A. Odreman, B. Al-Qaderi, S.R. Narhari, C. Pattnaik, Kuwait Oil Company; K. Al Ateeqi, Kuwait Oil Company

**IPTC-17621-MS**

**Continuous Incremental Reserves in an Oil Rim Marginal Field Development through Integrated Technical Initiatives and Technology Advancements**

R. Masoudi, PETRONAS; H. Karkooti, PETRONAS (Kuala Lumpur); K. Chan, PETRONAS; M.-. Othman, M. Altunbay, PETRONAS Carigali Sdn Bhd

**IPTC-17622-MS**

**BlowFlow - Next Generation Software for Calculating Blowout Rates**

H.C. Karlsen, Statoil ASA; E.P. Ford, Intl Research Inst of Stavanger

**IPTC-17623-MS**

**Achieving Maintenance Excellence in Maersk Oil Qatar**

K. Smart, K. Blakey, Maersk Oil Qatar

**IPTC-17624-MS**

**Seismic-Based Stochastic Porosity Prediction in a Giant Field: A Fine-Scale Quantitative Approach in Carbonates**

S. Samantaray, R. Moya, J. Michel, A. Bouziat, CGG; N. Al-Zaabi, A. Abdel Salam, Abu Dhabi Oil Co. Ltd.

**IPTC-17625-MS**

**Advanced Rock Characterization by Dual Energy CT Imaging: A Novel Method in Complex Reservoir Evaluation**

H. Al-Owihan, M. Al-wadi, S. Thakur, S. Behbehani, Kuwait Oil Company; N. Al-jebari, Halliburton; M. Dernaika, S. Koronfol., Ingrain

**IPTC-17626-MS**

**A Tool to Tackle the Challenges of the Treatment of the Back Produced Viscosified Water**

O. Rambeau, M. Jacob, M. Rondon, S. Jouenne, P. Cordelier, TOTAL EP

**IPTC-17627-MS**

**Safe Execution of a World Class EGR Facility in Abu Dhabi - The Elixir Mirfa Project**

S. Al Attas, ADNOC; E. Koyuncu, ADNOC-LINDE

**IPTC-17629-MS**

**Microporosity: Characterization, Distribution, and Influence on Oil Recovery**

S. Fullmer, ExxonMobil Upstream Research Co.; S. Guidry, J. Gournay, E. Bowlin, Exxonmobil Upstream Research Company; G. Ottinger, Zakum Dev Co. (ZADCO) U.A.E.; A.M. Al Neyadi, ZADCO Petroleum Co; G. Gupta, B. Gao, Exxonmobil Upstream Research Company; H.E. Edwards, Zakum Development Co.

**IPTC-17630-MS**

**A New Dual Rov Assisted Well Killing System For Deep Water Blowout Recovery: Development And Testing**

P. Ferrara, Eni E&P; E. De Marchi, M. Pasquini, Tecnomare

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**A Review of Alternative Methods to Classify Rock-Types from Capillary Pressure Measurements**

B. Lalanne, M. Rebelle, TOTAL E&P

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**Regional In-Situ Stress Mapping: An Initiative for Exploration & Development of Deep Gas Reservoirs in Kuwait**

S. Perumalla, Baker Hughes Inc; A. Al-Fares, R. Husain, R. Mulyono, N. Al-Ammar, A. Al-Kandary, Kuwait Oil Company; H. Singh, R. Al-Naeimi, U. Prasad, E. Scheele, C. Barton, Baker Hughes Inc

**IPTC-17633-MS**

**Small Scale LNG, Breaking Bulk for GCC Exporters to Open New Markets?**

C. Widdershoven, Ir Bas van den Beemt, TNO

**IPTC-17634-MS**

**Integration of Seismic Forward Modelling, Seismic Interpretation and Core and Log Analysis, Shuaiba Build-Up Area, Al Shaheen Field, Block 5 and Block 5 Extension, Offshore Qatar**

A. Uldall, N. Rameil, C.M. Cund, Maersk Oil; M.I. Emang, N. Bounoua, Qatar Petroleum

**IPTC-17635-MS**

**How Mastering Flow Assurance Software Can Help The Industry Take Up The Challenges Of Marginal And Remote Field Developments And Unlock Reserves?**

C. Candelier, F. Papot, A. Musi, D. Larrey, TOTAL E&P

**IPTC-17636-MS**

**Sr isotope Stratigraphy As A Tool To Refine The Sequence Stratigraphy Of the Barremian - Aptian (early Cretaceous) Carbonate Platform Reservoirs In The Uae**

Z.A. El Wazir, Abu Dhabi Co. Onshore Oil Opn.; T. Steuber, Petroleum Institute; R. Duan, Petroleum Institute, Abu Dhabi, United Arab Emirates; K. Mueller, Abu Dhabi Co. Onshore Oil Opn., Abu Dhabi, United Arab Emirates

**IPTC-17638-MS**

**3D Seismic Characterization of UER Karst, Offshore Qatar**

V. Zampetti, S. Mukund, Maersk Oil Qatar; X. Marquez, Maersk Oil Qatar AS; S.S. Bach, Maersk Oil & Gas A/S; M.I. Emang, Qatar Petroleum

**IPTC-17639-MS**

**Multi-Scale Carbonate Reservoir Characterisation and Artificial Neural Networks Reveals Complexity in the Shuaiba Reservoir, Al Shaheen Field**

S.J. Finlay, X. Marquez, Maersk Oil Qatar AS; T. Solling, Maersk Oil; N. Bounoua, T. Gagigi, Qatar Petroleum

**IPTC-17640-MS**

**An Experimental Investigation of the oil Recovery in the Transition Zone of Carbonate Reservoirs Taking Into Account Wettability Change**

F. Nono, Total E&P; H. Bertin, University of Bordeaux; G. Hamon, Total E&P

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**New Approach To Hydrocarbon Migration In The Polish Carpathians Based On Outcrops Analyses**

G. Lesniak, Oil & Gas Institute Poland; I. Matyasik, Oil & Gas Institute; L. Jankowski, Polish Geological Institute

**IPTC-17643-MS**

**Recent Advancements In Vessel Desanding Technology**

A.O. Opawale, T.M. Abdalla, FMC Technologies

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**The Unit For Productive Formations Vibroseismic Stimulation In Simultaneous Production By Submersible Pumping**

T. Zaynullov, Gubkin Russian State University of Oil & Gas

**IPTC-17645-MS**

**Integrated Analysis of Borehole and Surface Seismic Data to Resolve Seismic Uncertainties in the Gulf Of Suez**

M.S. El-Hateel, Suez Oil Company; P. Ahmad, Schlumberger; A.H. Ali Ismail, I.A. Henaish, Suez Oil Company; A. Ashraf, Schlumberger

**IPTC-17646-MS**

**Optimizing Reservoir Testing Operations With Downhole Wireless Telemetry System**

C. Acar, A. Aljifri, A. Atef, Y. Bekkouche, M. Maalej, I.R. Nwagbogu, S. Vannuffelen, Schlumberger

**IPTC-17648-MS**

**Giga Cell Compositional Simulation**

E. Obi, N. Eberle, A. Fil, Total S.A.; H. Cao, Total E&P USA INC

**IPTC-17649-MS**

**Sub Sea Compression at Ormen Lange**

R. Rijnbeek, A/S Norske Shell

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**Wireline Retrievable Electric Submersible Pump: Innovative and Valuable Completion for Offshore Fields**

T. Dieuzeide, A.P. Bemba, Total E&P Congo; D.H. Kusuma, Total S.A.; G. Anderson, Artificial Lift Company

**IPTC-17651-MS**

**Soft Torque Impact on Drilling Performance in Qatar**

F. Attar, R. Grauwman, Shell; O. Ikhajagbe, Gulf Drilling International

**IPTC-17652-MS**

**Mechanical Pipe Cutting in ERD Wells with Pipe Under Compression**

R.C. Macfarlane, Welltec Middle East; B. Schwanitz, Welltec AS; M. Aguirre, Baker Hughes; J.D. Greenlee, Welltec

**IPTC-17654-MS**

**Step Change In Shallow Water Reflection Seismic By Advances In De-multiple Techniques**

H. Roende, Maersk Oil; L. Madsen, Maersk Oil & Gas A/S; C. Huegen, S. Halliday, Maersk Oil; M.I. Emang, Qatar Petroleum

**IPTC-17655-MS**

**Improvements In Reservoir Fracture Network Characterization Using High Resolution Logging While Drilling Resistivity Images In Extended Reach Wells Under High Stick Slip Conditions**

S.J. Finlay, Maersk Oil Qatar AS; N. Bounoua, Qatar Petroleum; C.L. Fulton, Schlumberger Oilfield Services; F.N. Irani, Schlumberger Asia Services Ltd; S.Y. Chow, J.C. Rasmus, L. Pontarelli, Schlumberger

**IPTC-17656-MS**

**Dilute Surfactant Flooding Studies in a Low-Permeability Oil-Wet Middle East Carbonate**

M.V. Bennetzen, Maersk Oil Qatar AS; K. Mogensen, Maersk Oil Research & Technology Centre; S. Frank, Maersk Oil Qatar AS; K.K. Mohanty, University of Texas At Austin

**IPTC-17659-MS**

**Theory and Experimental Setup of the New Rise In Core Reservoir Wettability Measurement Technique**

S.G. Ghedan, Computer Modeling Group, Ltd.; H. Canbaz, Schlumberger Petrotechnical Services

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**Supporting the National Agenda: Education & Capability Building for the Youth of Today**

A. Garg, Royal Dutch Shell; M. Al-Kaabi, Maryam Alkaabi, Qatar Shell



**IPTC-17662-MS**

**Integrity and Efficiency in LNG Transfer Operations with Flexibles**

E. Bokhorst van, TNO Technical Sciences; A. Twerda, TNO Science & Industry

**IPTC-17663-MS**

**The Present-Day Stress Pattern in The Middle East and Northern Africa and their Importance: The World Stress Map Database Contains The Lowest Wellbore Information in These Petroliferous Areas**

M. Rajabi, M. Tingay, Australian School of Petroleum, University of Adelaide; O. Heidbach, GFZ German Research Centre for Geosciences

**IPTC-17664-MS**

**Applications of Geophysics to the Al Shaheen Field, Qatar, for Reservoir Characterisation and Field Development**

R. Lorenzen, Maersk Oil; L. Madsen, Maersk Oil & Gas A/S; C. Huegen, T. Ting, J. Henderson, C. Raborn, A. Uldall, Maersk Oil; H. Cromie, Maersk Oil; V. Zampetti, Maersk Oil; M.I. Emang, Qatar Petroleum

**IPTC-17665-MS**

**Re-Fracturing in Old, Mature and Depleted Carbonate Reservoir in Saudi Arabia for Production Enhancement**

T. Ogundare, A.R. Malik, A.A. Dashash, W. Khnaifir, A. Al-Yaseen, Saudi Aramco; R. Trejo, Schlumberger; T. Bukovac, Schlumberger Middle East SA

**IPTC-17666-MS**

**Program Acceleration - CASE STUDY**

A.Z. Al Utaibi, Saudi Aramco

**IPTC-17667-MS**

**Next-Generation Workflow for Multi-level Assisted History Matching: Visualization and Collaboration**

G.A. Carvajal, M. MauĐec, A. Singh, A. Mahajan, J. Dhar, M. Villamizar, S. Mirzadeh, S. Knabe, and F. Md-Adnan, Halliburton; A.K. Al-Jasmi, H. Nasr, and H.K. Goel, Kuwait Oil Company

**IPTC-17668-MS**

**Installation of Long Interval Conductor String Across Challenging Offshore Drilling Environment**

K. Won, Weatherford; K. Muir, C. Chanpen, PTTEP Myanmar; W. Thet, F. Noble, Oil States; I.B. Budi Utama, Weatherford

**IPTC-17669-MS**

**Acid Placement Services Create Large, Connecting Tunnels For Longer-lasting Production Gain In Carbonate Formation**

N. Ali, Baker Hughes; L. Loucif, Baker Hughes; O. Ilesanmi, Baker Hughes

**IPTC-17670-MS**

**An Accurate Volumetric Calculation Method for Estimating Original Hydrocarbons in Place for Oil and Gas Shales including adsorbed Gas using High-Resolution Geological Model**

J. Bruyelle, D. Guérillot, Terra 3E

**IPTC-17672-MS**

**3D Imaging of Porosity Modifying Phases in Shuaiba Reservoir, Al Shaheen Field**

X. Marquez Ceballos, T. Solling, Maersk Oil Research & Technology Centre; S.J. Finlay, Maersk Oil Qatar AS; N. Bounoua, T. Gagigi, Qatar Petroleum

**IPTC-17673-MS**

**3D Imaging Of The Pore Network In The Shuaiba Reservoir, Al Shaheen Field**

T. Solling, Maersk Oil; X. Marquez, S.J. Finlay, Maersk Oil Qatar AS; N. Bounoua, T. Gagigi, Qatar Petroleum

**IPTC-17674-MS**

**Combining High-Definition Formation Microelectrical Imaging and Wireline Formation Tester for Improved Reservoir Characterization in High-Resistivity Low-Permeability Carbonate Reservoir**

M.S. Osman, W.S. Matter, Schlumberger; J. Gao, Wintershall Holding GmbH; W. Koerfer, Wintershall A.G.; M. E. Zahran El-Demerdash, Qatar Petroleum

**IPTC-17675-MS**

**Improving Gas Relative Permeability in Tight Gas Formations by Using Microemulsions**

A. Rostami, Texas A&M University; D. Nguyen, Nalco; H. Nasr El Din, Texas A&M University

**IPTC-17676-MS**

**Study On Mechanism Of Two-phase Flow In Porous Media Using Micro Focused X-ray CT**

K. Mikami, Japan Oil, Gas & Metals Natl. Corp.; T. Mukunoki, Graduate School of Science and Technology, Kumamoto University

**IPTC-17677-MS**

**Back-flowing of Injection Wells**

W.B. Bowen, Maersk Oil Qatar; R. Benkovic, M.C. Gunningham, Maersk Oil Qatar AS; M.R. Jaafar, M. Ghozali, A. Al-sadah, Qatar Petroleum

**IPTC-17678-MS**

**E-Technology: A Key for Excellence in Training Geosciences**

D. Dekeyser, Total E&P; L. Machhour, V. Vedrenne, Total

**IPTC-17679-MS**

**Implementation of Interval Velocity Data in the Analysis of Vertical Fluid Migration Routes and Charging Offshore Qatar**

K. J. Andresen, Department of Geoscience Aarhus University Denmark, A. Uldall, M. Hertle, L. Madsen, C. Perrin, N. Rameil, Maersk Oil, G. Durance, Maersk Oil Qatar, H. Tirsgaard, Maersk Oil, M. Emang, T. Gagigi, Qatar Petroleum

**IPTC-17680-MS**

**Automatic High-Throughput Detection of Fluid Inclusions in Thin-Section Images using a Novel Algorithm**

M.V. Bennetzen, X. Marquez, Maersk Oil Qatar AS; K. Mogensen, Maersk Oil Research & Technology Centre

**IPTC-17681-MS**

**Insitu Heat Generation for Near Wellbore Asphaltene and Wax Remediation**

S. Tiwari, A. Singh, S. Verma, Cairn India Ltd.

**IPTC-17682-MS**

**Design, Implementation And Results Of An Inter-Well Chemical Water Tracers Pilot Test To Improve Water Flood In Complex Reservoirs**

A.J. Cuauro, F. Frans, Maersk Oil Qatar AS; D.P. Knowles, Maersk Oil; P.L. Wigley, Maersk Oil Qatar AS; C. De Mas De Mas, Maersk Oil & Gas A/S; K. Jevanord, IFE/Restrack; A. Al-sadah, Qatar Petroleum

**IPTC-17683-MS**

**The Challenges of Extending the Life of UK Offshore Installations**

J. Russell, I. Keith, Shell U.K. Limited

**IPTC-17684-MS**

**Managing Risk in a Thermal Oil Sands Development Project Through Appropriate Technical and Well Operating Design**

M. Zatka, Shell Canada Energy

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**Predicting Lithology and Porosity of Carbonate Reservoirs Using Geostatistical Stochastic Pre-stack Inversion for Geomodeling Constraint**

L.R. Pernia Soto, J.L. Piazza, D. Chenot, C. De Margon, Total SA France

**IPTC-17686-MS**

**Overcoming Hydraulic Fracturing Challenges in High Temperature and Tight Gas Reservoirs of Saudi Arabia with an Enhanced Fracturing Fluid System**

A.R. Malik, J.A. Leal Jauregui, A.A. Dashash, Saudi Aramco; S.M. Al-Driweesh, Saudi Aramco (UPDC); J. Soriano, A. Lopez, Halliburton

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**Quantifying the Impact of Natural Fractures and Pore Structure on NMR Measurements in Multiple-Porosity Systems**

L. Chi, Z. Heidari, Texas A&M University

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**The Emerging Potential of Re-Os Isotope Geochemistry for Source Rocks and Maturation-Migration Histories**

H.J. Stein, J.L. Hannah, AIRIE Program, Colorado State University, Fort Collins, CO, USA

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**Malaysia Deepwater Development: Optimizing Kikeh Reservoir Management and Exploitation in a Changing Environment**

R. Masoudi, PETRONAS; H. Karkooti, PETRONAS (Kuala Lumpur); S. Burford, Murphy Oil Corporation; M. Othman, PETRONAS Carigali Sdn Bhd

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**Permeability Prediction Using Probabilistic Neural Network (PNN): Application to the Paleozoic Shallow Marine Sandstone of Quwarah Member, Qasim Formation, Saudi Arabia**

O.M. Abdullatif, M. Shuaib, King Fahd University of Petroleum & Minerals (KFUPM)

**IPTC-17696-MS**

**Pore-Scale Imaging of Oil and Wettability in Native-State, Mixed-Wet Reservoir Carbonates**

Nicole Dodd, Rohini Marathe, Jill Middleton, Andrew Fogden, Australian National University; Anna Carnerup, Mark Knackstedt, Lithicon Pty Limited; Kristian Mogensen, Xiomara Marquez, Søren Frank, Maersk Oil Research and Technology Centre; Nouredine Bounoua, Rashed Noman, Qatar Petroleum

**IPTC-17697-MS**

**Myanmar First 4d Experience, Bringing Knowledge And Surprises To The Field**

P. Charron, E. Brechet, C.J. Saint-Andre, E. Brosille, Total S.A.; R. Petton, Total E&P Myanmar; P. Gourmel, CGG

**IPTC-17698-MS**

**Advanced HPCT Abrasive Perforating Technique Utilized to Successfully Bypass Damaged Formation to Allow for Effective Acid Stimulation**

A.R. Malik, T. Ogundare, M.S. Al-Bu Ali, A.E. Mukhliss, Saudi Aramco; T. Green, M. Haekal, Halliburton

**IPTC-17699-MS**

**Dynamic Hydrocarbon Trapping in Active Hydrodynamic Environments**

C. Wibberley, Total E&P

**IPTC-17700-MS**

**Diagnosis of Multiple Fracture Stimulation in Horizontal Wells by Downhole Temperature Measurements**

D. Zhu, J. Cui, Texas A&M University

**IPTC-17702-MS**

**Narrowing the Loop for Microporosity Quantification in Carbonate Reservoirs Using Digital Rock Physics and Other Conventional Techniques**

A.A. Al-Ratrout, M.Z. Kalam, Abu Dhabi Co. Onshore Oil Opn.; J.S. Gomes, M.S. Jouini, The Petroleum Institute; S. Roth, iRocks Technologies; H. Lemmens, B. Mtawaa, FEI

**IPTC-17703-MS**

**Secondary and Tertiary Polymer Flooding in Extra-Heavy Oil: Reservoir Conditions Measurements - Performance Comparison**

C. Fabbri, C. Cottin, J. Jimenez, M. N'Guyen, S. Hourcq, M.J. Bourgeois, G. Hamon, Total S.A.

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**Imaging The Pre-khuff: Changing The Game With Innovative Seismic Technology**

M. Van Der Molen, C. Harvey, M.D. Molinaro, R. Navarro-Luna, Qatar Shell; P. Stigborg, Shell Global Solutions International

**IPTC-17706-MS**

**Utilising Integrated Natural Gas Liquids (NGL) and Nitrogen Rejection unit (NRU) technology in Qatar on the Barzan Gas Project**

S. Al-Kaabi, RasGas

## **Abstracts Only**

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**Relationship of Genetic Basin Development to Conventional Hydrocarbon Endowment**

S. Creaney, P.E. Walker, ExxonMobil

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**Impact of Full Wavefield Inversion on the Upstream Business**

P.S. Routh, D.D. McAdow, S. Lazaratos, J. Krebs, G. Palacharla, R. Bansal, Y. Tang, ExxonMobil

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**Prevent, Detect, Respond and Recover**

J. Morris, ExxonMobil

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**Remote Gas Detection by Analysis of IR Imagery in a Field Deployment Setting**

H.M. Abdel-Moati, ExxonMobil; J.M. Morris, Providence Photonics

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**I-Field Technologies on a Mass Scale: Change for Efficiency Improvement**

Meshal A. Al-Amri, Faisal T. Al-Khelaiwi, Marwan A. Zarea, Mohammad N. Al-Khamis, AbdulRahman A. Al-Ghamdi, Saudi Aramco

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**Managing Paraffin Wax Deposition in Liquid Rich Shale and Light Tight Oil Wells in Western Alberta**

S. Sanchez, F. Letendre, M. Cano, P. Solc, C. O'Shea, S.I. Olayemi, Shell

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**Minimum Facilities Platforms: A Cost Effective Solution to Limited Drilling Slot Availability in the Offshore Arabian Gulf**

P.J. McCurdy, Occidental Oil & Gas International

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**A Comprehensive Approach to the Design of Advanced Well Completions**

F.T. Al-Khelaiwi, Saudi Aramco; D.R. Davies, Heriot-Watt University

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**Enhancing Reliability of Brazed Aluminum Heat Exchangers in Gas Processing Services**

D. Miller, B. Foglesong, ExxonMobil

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**Re-Activating and Linking SCADA Wells in North Kuwait Fields with KOC Teams Collaboration Efforts**

K. Qureshey, H. Al-Ajmi, Kuwait Oil Company

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**A New Approach to Reservoir Modeling and Simulation Using Boundary Representation, Adaptive Unstructured Meshes and Control-Volume-Finite-Element Methods**

M.D. Jackson, P. Mostaghimi, J.R. Percival, D. Pavlidis, C.C. Pain, M.J. Blunt, A.H. Muggeridge, Imperial College London; B.S. Tollit, Imperial College London (now at Amec); J.L. Gomes, Imperial College London (now at Uni Aberdeen)

**IPTC-17449**

**Phased Development Approach to Manage Subsurface Uncertainty and Execution Risks**

C.A. Pruitt, S. Pinhey, J.D. Buffington, ExxonMobil

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**Integrated Use of Geophysical Data in a Shale Gas Development, Horn River Basin, British Columbia, Canada**

M. Chen, M. Davie, O. Rehkopf, N. Austin, R. Jonk, K. Potma, C. Cheal, Imperial Oil Resources

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**Design Parameters for the Development of a CO<sub>2</sub> Infrastructure**

L.J. Van Den Broeke, M. Haouari, Qatar University; R. De Kler, TNO

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**Importance of Proper Pressure-Gauge Placement in Well Testing and Monitoring of Highly Permeable Reservoirs**

A.G. Guzman-garcia, ExxonMobil; B.Theuveny, Schlumberger

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**Sao Francisco Basin Tight Reservoir Play: Defining Benefits of Hammer Bit/Percussion Drilling in Brazil**

M. Gerlero, R. Pinho, D. Barreto, Smith Bits, a Schlumberger Company

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**Geomorphology of Channels and Canyons from Plio-Pleistocene Deposits Offshore Angola Based on Seismic Broadband Analysis**

E. Braccini, Total

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**Developing the Workforce of Tomorrow - Tamayoz**

A.R. Pryde, ExxonMobil

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**Successful Application of Intelligent Completions in Al Khalij Field**

P. Pouget, X. Briz-Quintero, J. Authier, Y. Deffous, Total E&P Qatar; S.F. Gurses, E. Gulamov, Schlumberger; M.R. Jaafar, I. Abdelhamid, A.R. Al-Naimi, Qatar Petroleum Company

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**Land Broadband Seismic—Implementation Success**

S. Mahrooqi, S. Rawahi, S. Yarubi, A. Yahyai, K.A. Hunt, F. Clow, I. Vincent, Petroleum Development Oman

**IPTC-17580**

**Successful Installation of the 1st Flare Gas Recovery System in Saudi Aramco**

M. Almomen, Saudi Aramco

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**Uncertainty in Static Modeling**

J. Rodriguez Gonzalez, C. Condie, A. Grijalba, S. Rinat, R.M. Corbeanu, S. Nasoetion, Occidental Petroleum; M.D. Labiadh, R. Narayanan, Qatar Petroleum

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**Membrane Gas Absorption And Desorption: Advantages and Hurdles**

M. Gerlero, R. Pinho, D. E. Goetheer, R. Van der Stel, TNO