

International Petroleum Technology Conference 2012

(IPTC 2012)

**Bangkok, Thailand
7-9 February 2012**

Volume 1 of 4

ISBN: 978-1-61839-659-4

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2012) by the Society of Petroleum Engineers
All rights reserved.

Printed by Curran Associates, Inc. (2012)

For permission requests, please contact the Society of Petroleum Engineers
at the address below.

Society of Petroleum Engineers
P. O. Box 833836
Richardson, Texas 75083-3836

Phone: (800) 456-6863
Fax: (972) 952-9435

books@spe.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

VOLUME 1

MANUSCRIPTS

IPTC 14119 Investigation of Pore-Scale dispersion in Polymer Flooding	1
<i>Junjian Li, Hanqiao Jiang, Yuzhang Liu</i>	
IPTC 14123 First Time Application of Stand Alone Screens with Sliding Sleeves in the Giant Mangala Field, Rajasthan India	12
<i>Chetan Chavan, Andrew Wenk, Tim McKenzie, Rohit Tandon, Suniti Bhat</i>	
IPTC 14126 Practical Consideration on Operations and Production Management Through the Deployment of Inflow Control Devices for Horizontal Wells, Bouri Field, Libya	21
<i>Mustafa Amari, Francisco Porturas, Hossein Algdamsi, Hosan Eldin Sharaf, Mohamed Lakhdar, Nasser Misherghi, Marcel Grivet, Srdjan Borac, Hassan Jalool, Enzo Vegliante, Luciano Rossi</i>	
IPTC 14131 Effect of EOR Technology on Wettability and Oil Recovery of Carbonate and Sandstone Formation	38
<i>Abdulrazag Y. Zekri, Mohamed Nasr, Zaid Al-Arabai</i>	
IPTC 14141 Bayesian Algorithm Opens Way to Wellbore Stability	49
<i>Hamed Soroush</i>	
IPTC 14147 Modelling of Asphaltene Precipitation and Deposition during WAG Application	57
<i>Ahmad Khanifar, Birol Demiral, Nasir Darman</i>	
IPTC 14154 Application of New Hole Cleaning Optimization Method within All Ranges of Hole Inclinations	68
<i>M. Mohammadsalehi, N. Malekzadah</i>	
IPTC 14157 Breaking Oil Recovery Limit in Malaysian Thin Oil Rim Reservoirs: Water Injection Optimization	76
<i>Keng Seng Chan, Azmukiff M. Kifli, Nasir Darman</i>	
IPTC 14160 Optimizing Underbalanced Perforation Performance, a New Model to Precise Adjustments of Downhole Condition	86
<i>Mehdi Mohammadsalehi, Hamidreza Saghafi, Mehdi Teymaarishamasbi</i>	
IPTC 14165 Experimental and Analytical Studies on Permeability Reduction of Coal Seam by CO₂ Injection	93
<i>Ferian Anggara, Kyuro Sasaki, Yuichi Sugai</i>	
IPTC 14168 Reconstruction of Relative Sea Level for Burgan-Wara Complex in Greater Burgan Field using an Innovative Approach	102
<i>Bashar Al-Enezi, Kishore Burman, Kalyan Datta, Erwan Le Guerroué, Jean-Michel Filak</i>	
IPTC 14184 Operational QA/QC: What You See is Not Necessarily What You Get	109
<i>M. Rylance, W. J. Giffin</i>	
IPTC 14187 An Original Technique to Characterize Naturally Fractured Reservoirs from Pressure Transient Analyses	129
<i>Tarek Elkewidy</i>	
IPTC 14189 Skin Calculation and Other Applications with New Sonic Measurement in the Gulf of Thailand	148
<i>Long Jiang, Suwit Pabchanda</i>	
IPTC 14206 International LNG Prospects 2011 and Beyond	157
<i>Chau Tran, Bruce Cassidy, Marisa Pierce, Xiuli Wang, Michael J. Economides</i>	
IPTC 14208 Perturbation of Homogeneous Thermal Conductivity Distribution in Some Carbonates by Stylolites	169
<i>Eswaran Padmanabhan</i>	
IPTC 14211 Natural Gas Hydrates as an Energy Source – Revisited	176
<i>Xiuli Wang, Michael J. Economides</i>	
IPTC 14215 A Novel Approach To Effluent Treatment In Gas-To-Liquid (GTL)	187
<i>C. G. Enyi, M. Nagib, G. G. Nasr</i>	
IPTC 14217 Deep Fluid Diversion for Profile Control and Oil Displacement Technologies	200
<i>Liu He, Xu Hanbing</i>	
IPTC 14231 Advances in Subsea Wet Gas Compression Technologies	208
<i>Mads Hjelmeland, Arne B. Olsen, Rudi Marjohan</i>	
IPTC 14241 Measuring and Controlling Torsional Vibrations and Stick-Slip in a Viscous-Damped Drillstring Model	217
<i>E. Omojuwa, S. Osisanya, R. Ahmed</i>	
IPTC 14245 Developing New Petroleum Engineers in a Non-Operating Environment	230
<i>M. I. B. Ibrahim, A. I. Almuhanna, K. Amiri-Garroussi</i>	
IPTC 14247 Effects of Syn-depositional Tectonics on Platform Geometry and Reservoir Characters in Miocene Carbonate Platforms of Central Luconia, Sarawak	245
<i>Ting King King, Bernard J. Pierson, Omar Al-Jaaidi, Paul Hague</i>	
IPTC 14253 Leveraging Emerging Technologies to Increase Production from Unconventional Reservoirs: Case Study of India	262
<i>Yogesh Kumar Choudhary, Arunesh Kumar</i>	

IPTC 14255 Monobore Solid Expandable Liners – Redesigning Wells for a More Economical and Operational Benefit	275
<i>Asim Siddiqui, Patrick York</i>	
IPTC 14257 Optimized Planning and Placement of Horizontal Wells Improved Well Productivity and Controlled Water Cut in Umm Gudair Field, Kuwait	293
<i>T. K. Banerjee, Eman H. E. Fadli, Fazal Ahmed, Al-Khalifa, Nasser Faisal</i>	
IPTC 14258 Burgan Multilateral Campaign: A Success Story in Development of a Complex Siliciclastis Reservoir in Kuwait	301
<i>Javed Ahsan, Jamal Al-Humoud, Hussain Al-Ajmi, Dipankar Ghosh, Kalyanbrata Datta, V. Chimmalgi, Naz Gazi, Rafiq Haryono, Rohit Kotecha, Biswarup Gupta, Bashar Al Anzi</i>	
IPTC 14263 Extending Formation Tester Performance to a Higher Temperature Limit	311
<i>S. Daungkaew, N. Yimyan, C. Avant, J. Hill, K. Sintoovongse, A. Nguyen-Thuyet, M. Slapal, C. Ayan, K. Osman, J. Wanwises, G. Heath, S. Salilasiri, C. Kongkanoi, N. Prapasanobon, T. Vattanapakanchai, A. Sirimongkolkitti, H. Ngo, K. Kuntawang</i>	
IPTC 14268 Experiment and Simulation of Indigenous Microbial Enhanced Oil Recovery (IMEOR)	321
<i>C. J. Yao, G. L. Lei, J. Y. Ma, F. M. Zhao, G. Z. Cao</i>	
IPTC 14272 Combining Conventional and Wireline Formation Testing for Improved Reservoir Characterization	333
<i>S Ramaswami, H. Elshahawi, A El Battawy</i>	
IPTC 14273 Improving SAGD Performance Combining with CSS	347
<i>E. Ghanbari, S. Mighani, E. Shaabani, R. Alipour Yeganeh Marand</i>	
IPTC 14274 Application of Permanent Reservoir Monitoring Data (DTS* & PDG*) in a Mature Offshore Malaysian Oilfield, for Production Optimisation and Workover Control	353
<i>K. F. Gordon Goh, M. Z. Zaini, T. K. M. Gee, P. A. Whitney, A. S. Molavi, M. M. Salim</i>	
IPTC 14279 Avoiding Sustained Casing Pressure in Gas wells using Self Healing Cement	365
<i>Salim Taoutaou, Jorge Andres Vargas Bermea, Bassam Elatrache, Christian Pasturel, Martial Brangetto</i>	
IPTC 14280 A Reservoir Management Tool for an Omani Fractured Carbonate Reservoir: A Case Study	374
<i>Ibrahim S. Al Sinani, Rashid S. Al Maamari, Majid A. Al Wadhahi, Wan F. Paino</i>	
IPTC 14285 Exposure to Phosphate-based Completion Brine under HPHT Laboratory Conditions Causes Significant Gas Permeability Reduction in Sandstone Cores	385
<i>John D. Downs</i>	
IPTC 14289 How New Measurement, Tomographic and Visualisation Techniques Help Operators Improve Recovery in Older and Smaller Fields	409
<i>Lars Anders Ruden</i>	
IPTC 14295 Integrated Reservoir Characterization and Development Through an Improved Workflow Approach to Couple a Three Dimensional Seismic Study Results and Reservoir Numerical Simulation: Revealing the Effect of Structural Features in La Victoria Field	420
<i>K. Castillo, M. C. Urdaneta, Y. Askoul</i>	
IPTC 14297 Structural Reliability: Assessing the Condition and Reliability of Casing in Compacting Reservoirs	433
<i>Prasongsit Chantose, Paolo Gardoni, Jerome Schubert, Catalin Teodoriu</i>	
IPTC 14300 A Combination of Perforating Technologies to Maximize Well Productivity and Minimize Rig Time	448
<i>Nishant Chadha, Carlos Baumann, Harvey Williams, Ryosuke Yokote</i>	
IPTC 14309 Effective Permeability 3D Model Unlock the Uncertainty Production in Low Perm Fluvial-deltaic Reservoirs, Nilam Field, Kutai Basin, Indonesia	458
<i>Jose Benito Corbellini, Ratno Adi, I Made Sutha, Luhut Gultom, Amireno Soenoro</i>	
IPTC 14324 Reducing Safety Incidents While Lifting and Handling Drilling Jars: A Case Study	480
<i>Chad D. Evans, Rienk Reitsma, Euan Ramsay</i>	
IPTC 14325 Hydrogen Imbalance in Petroleum Source	485
<i>Swapan Kumar Bhattacharya</i>	
IPTC 14327 Enhancing the Interpretation of Rift Structures in Sudan Using AVO Analysis and Seismic Inversion	490
<i>Mohamed Mahgoub, Eswaran Padmanabhan</i>	
IPTC 14328 Inferring Reservoir Interwell Dynamic Connectivity Based On Signal Processing Method	499
<i>Jian Hou, Zhenquan Li, Yejun Liu, Yanhui Zhang, Chuanfei Wang, Fuquan Luo</i>	
IPTC 14335 Utilising GHV Management in Field Development Planning	513
<i>C. Wiboonkij-Arphakul, Ing Jye Tsai, C. Jablownowski</i>	
IPTC 14351 Implementation of Next Generation Intelligent Downhole Production Control in Multiple Dipping Sandstones Reservoirs, Offshore East Malaysia	520
<i>J. H. Chris Chen, N. M. Azrul, B. M. Farris, K. Z. Nurhazrina, M. K. M. Aminuddin, M. Y. Saiful Anuar, K. F. Gordon Goh, K. S. Premjit Kaur, T. K. Darren Luke, A. Eddep</i>	
IPTC 14352 Performance Evaluation and Mechanism Analysis of HPAM Solution with Broad-distribution Relative Molecular Mass	532
<i>Xiangguo Lu, Huanjun Liu, Shuxia Wang, Xiaoyan Wang</i>	
IPTC 14358 Multi-Azimuth, Coil Shooting and Dual Sensor Streamer Acquisition: Step Change Seismic Imaging Results in Deep Water Indonesia	544
<i>M. Buia, E. Tozzi, A. Ravasio, P. Brown</i>	
IPTC 14360 Reservoir Fluid Sampling of a Wide Spectrum of Fluid Types Under Different Conditions: Issues, Challenges, and Solutions	551
<i>N. R. Nagarajan</i>	
IPTC 14361 The Socioeconomic Repercussions of Achieving Energy Independence	562
<i>L. A. Alcoser</i>	
IPTC 14369 A New Method to Identify Proppant Location in Induced Fractures	578
<i>Robert J. Duenkel, Harry D. Smith Jr., Jiangping Hao, Dakang Gao, Terry Palisch, Xiaogang Han</i>	

IPTC 14375 From Core to Geomodel Integrated Reservoir Characterization: Example of a Carbonate Gas Field	587
<i>Michel Rebelle, Fabrice Cochet, Christine Duval, Bruno Caline, Cédric Mabilbe, Claude Gapillou</i>	
IPTC 14381 Development and Performance of an Eco-Friendly Cross-Linked Polymer System for Water Shut-Off Technique	601
<i>Baisali Sengupta, V. P. Sharma, G. Udayabhanu</i>	
IPTC 14383 Oil and Condensate Types in Cenozoic Basins Offshore Vietnam: Composition and Derivation	612
<i>H. I. Petersen, H. P. Nytoft, M. B. W. Fyhn, N. T. Dau, H. T. Huong, J. A. Bojesen-Koefoed, L. H. Nielsen</i>	
IPTC 14393 The Pulse Water Injection Research and Application in Offshore Oilfield	622
<i>Wang Yunxian, Liu Ming, Yang Qinghong, Feng Xin, Zhou Tiyaoyao, Wang Lirong, Li Tingli, Zhang Jianmin, Zhang Lan, Hu Young, Zhai Guangfu, Liu Peng, Li Fenghui</i>	
IPTC 14396 Evolution of Geosteering Technology Helped in Successive Development of a Brown Field—Case Study from Mumbai High	633
<i>S. K. Anand, J. Kumbhar, U. Singh, M.S.H.M. Jeelani, C. Majumdar, J. Singh</i>	
IPTC 14398 Validating of Reservoir Connectivity and Compartmentalization Through the Use of the CO₂ Compositional Gradient, Mass Transportation Simulation, and Asphaltene Analysis	646
<i>Saifon Daungkaew, Oliver C. Mullins, Zailily Johan, Eric Lehne, Julian Zuo, Suresh Sinnappu, Thomas Pfeiffer, Tan Giok Lin, Tunku Indra B Tunku A Muthalib, Teh Yat Hong, Hazwani Bt Rameli, John T Ludwig</i>	
IPTC 14399 Well Productivity Prediction for Laminated Reservoirs Using Borehole Electrical Image Logs	658
<i>S. Chokithanyawat, S. Daungkaew, S. Athichanagorn</i>	
IPTC 14401 New Phase of Formation Evaluation in the Gulf of Thailand	677
<i>Tanabordee Duangprasert, Saifon Daungkaew, Ronarong Paramatikul, Regis Vincent</i>	
IPTC 14407 Successful CTU Catenary and Well Test Operation on BY Drilling Platform	688
<i>M Reduan Sapian, M Helmi Nordin, Mohamed Sharief Saeed Salih, Trigunadi Budi Setiawan, M Zaidan Khalid</i>	
IPTC 14412 Seismic Amplitude Loss Compensation for Future Seismic Reservoir Characterization Studies in Peciko Field – Indonesia	698
<i>R. Brahmantio, A. Kusuma, F. Bertini, J. Dufour, B. Paternoster, S. Leclair</i>	
IPTC 14413 Challenges in Determination of Water Content and Condensed Water in a Multi-stacked Sour Gas Field with High CO₂ Content Offshore Malaysia	707
<i>Wong Tiong Hui, Rahim Masoudi, Jared Philpot, Mohamad Othman</i>	
IPTC 14422 Targeted Completions Change Economics in Unconventional Reservoirs	715
<i>Charles H. Smith, Eli Menendez</i>	
IPTC 14423 Kick Mechanisms and Unique Well Control Practices in Vulgar Deepwater Carbonates	723
<i>F. E. Dupriest</i>	
IPTC 14424 Concepts in Gas Compressor Station Configuration	733
<i>Rainer Kurz, Matt Lubomirsk</i>	
IPTC 14425 Managing Export Manifold to Ensure Gas Deliverability	743
<i>A. Priambudi, R. N. Baraba, N. W. Tranggono, B. Aryanto</i>	
IPTC 14434 Risk Based Inspection (RBI) of Aboveground Storage Tanks to Improve Asset Integrity	750
<i>Abdul Wahab Al-Mithin, Vinayak Sardesai, Bader Al-Harbi, Hari Srinivasa Murthy, Abdul Sattar A. Hannan</i>	
IPTC 14441 Riserless Vertical Drilling Operations using Downhole Motors in the Nankai-Trough Seismogenic Zone	756
<i>Y. Shinmoto, Y. Kido, K. Wada</i>	
IPTC 14443 3D-VSP and Surface Full-azimuth Seismic Integrated Study in Daqing Oil Field	763
<i>Yanpeng Li, Yun Ling, Yuanzhong Chen, Jun Gao, Gang Xu, Fangdong Chu</i>	
IPTC 14446 Establishing and Enhancing Reservoir Injectivity in the B8/32 Asset, Gulf of Thailand	774
<i>Pongpak Taksaudom, Mark J. Ogier, Mauricio Villega</i>	
IPTC 14454 Conversion of Olefins in LPG through Hydrogenation	784
<i>G. Gurulakshmanan, V. Balaji, D. Ganesh</i>	
IPTC 14456 Geophysical Reservoir Characterisation and Modeling of Marrat Carbonate Reservoir in Minagish Field, West Kuwait	788
<i>Abdulaziz Abduljalil, N. K Verma, Mafizar Rahaman, Waleed Al- Khamees, Khaled Al-Mutairi, Kamran Laiq, Mukarram Ahmed, Ahmed Sabry</i>	
IPTC 14457 Seismic Exploration for Tight Gas Sand: A Case Study in Sulige Gasfield	797
<i>Yijun Zhou, Chaoquan Peng, Lingbang Zeng, Min Qiang, Qingjia Tong, Hongwei Li, Xinhua Zhang</i>	
IPTC 14458 Workflows for Quantitative 4D Seismic Data Integration: A Case Study	802
<i>Long Jin, Gottfried Tiller, Daniel Weber, Shipeng Fu, Javier Ferrandis, Paul Van Den Hoek, Carlos Pirmez, Tope Fehintola, Fidelis Tendo, Elozino Olaniyan</i>	
IPTC 14464 Carbon Dioxide Storage Potential in the North Sea	808
<i>Nalinee Chamwudhiprecha, Martin J Blunt</i>	
IPTC 14465 Recent Step-out Exploration in the Greater Sirikit East Area, Sirikit Oil Field, Onshore Thailand, a Model for Overlooked Area	822
<i>Farid Saifuddin, Sunantha Phaungphuak, Sureena Matha, Watanapong Ratawessanun, I Nengah Nuada</i>	
IPTC 14470 Nam Con Son Basin Analysis: The Old and New	839
<i>Kevin Meyer</i>	
IPTC 14471 An Effective Approach for Automatic Rock-Typing and Calibration Using Single-Well Models	843
<i>Sachin Sharma, Alexis Carrillat, Torsten Friedel</i>	
IPTC 14472 Predicting Marginal Marine Reservoir Architecture: Examples from Asian Shoreline Systems	852
<i>Boyan K. Vakarelov, R. Bruce Ainsworth</i>	
IPTC 14474 A Case Study of Pre-stack Depth Migration Application over a Salt Dome Area	862
<i>Hongjun Zhang, Junbiao Ping, Feng Yang, Junbiao Ping, Qi He, Hongtao Chen</i>	

IPTC 14475 Detection of Cross-flows Behind Casing before Perforations, and Cement Isolation Diagnosis Based on Temperature Analysis (TUNU field, Indonesia)	873
<i>Sébastien Perrier</i>	
IPTC 14479 A Novel Method for Life-Cycle Production Performance Forecast Based on Dynamic Analogs	892
<i>X. G. Lu, S. Q. Sun, J. Xu, W. K. Wu, P. Y. Zhai, Y. N. Wei, G. Q. Li</i>	
IPTC 14487 Sichuan Basin Shale Gas, China: Exploring the Lower Silurian Longmaxi Shale	906
<i>Claudia J. Hackbarth, Danny Soo, Navpreet Singh</i>	
IPTC 14490 The Path to a Real-Time Optimized, Integrated Gas Network - Smart Fields Applied	917
<i>Derek Göbel, Ron Cramer, Jan Briers, Frank De Boer, Kok-Lam Lai, Martijn Hooimeijer</i>	
IPTC 14491 Stratigraphic Traps in Distal Lacustrine Delta, A Case History from Greater Sirikit East Field, Phitsanulok Basin, Central Plain, Thailand	932
<i>Sureena Matha, Farid Saifuddin, Apsorn Panthong, I Nengah Nuada, Sunantha Phaungphuak, Watanapong Ratawessanun, Thanathorn Euasurmpong</i>	
IPTC 14495 PP & PS Wave Image and Joint Stochastic Prestack Inversion in the Same PP Time Scale Domain	948
<i>Zhiwen Deng, Mrinal K. Sen, Uxin Wang, Xuming Bai</i>	

VOLUME 2

IPTC 14500 Effectiveness of Digital Rock Physical Laboratories In Characterisation of Heterogenous and Complex Carbonates—A Synthesis	955
<i>Prasanta Kumar Mishra, Bibi Hussain Akbar</i>	
IPTC 14506 Constrained Anisotropy Estimation for PSDM Velocity Model Building and Refinement	968
<i>Maurizio Ferla, Patrizia Cibir, Erika Gentile, Emanuela Battistutti, Leutscher Johan</i>	
IPTC 14507 Feasibility of an EOR MicroPilot for Low-Salinity Water Flooding	973
<i>Morten Kristensen, Cosan Ayan, Raghu Ramamoorthy, Koksai Cig</i>	
IPTC 14514 Prediction of Oil and Gas Reservoir Properties using Support Vector Machines	987
<i>Fatai Anifowose, Abdazeem Ewenla, Safiriyu Eludiora</i>	
IPTC 14518 Virtual Measurement Value During Start-up of Major Offshore Projects	996
<i>R. Cramer, N. Griffiths, P. Kinghorn, D. Schotanus, John Brutz, Klaus Mueller</i>	
IPTC 14535 Multiples, Diffractions and Diffracted Multiples in the South China Sea: How Dense Does Our Acquisition Geometry Need to Be?	1006
<i>Rosemary K Quinn, Lynn Comeaux</i>	
IPTC 14538 Malaysia East Belulut Field: Doubling a Marginal Field's Reserves by Understanding the Application of "Enabling" Technology	1012
<i>Ong Tee Suan, Mark Lambert, Barry Goodin, Mohamad Othman</i>	
IPTC 14539 Karst Modeling of a Miocene Carbonate Build-Up in Central Luconia, SE Asia: Challenges in Seismic Characterisation and Geological Model Building	1023
<i>Elvis Chung, Ting King King, Omar Aljaaidi</i>	
IPTC 14540 Study and Application of Carbonate Reservoir Characterization in Block-B on the Eastern Margin of the Pre-Caspian Basin	1029
<i>Chen Hongtao, Li Jianying, Yang Feng, Li Yibao</i>	
IPTC 14544 Seismic-While-Drilling Checkshot Survey on High-Inclination Well—Beyond the Time and Depth	1037
<i>Aqil Ahmed, Teck Kean Lim, Walter Wuerz, Maneerat Kanaree, Wayne Pirie, Pieter J. Rebel</i>	
IPTC 14548 FLNG Development: Strategic Approaches to New Growth Challenges	1043
<i>Maneenapang Bunnag, Nunthachai Amarutanon, Saranee Nitayaphan, Manit Aimcharoenchaiyakul</i>	
IPTC 14553 Heterogeneity of the Hydrocarbon Distribution in Tertiary Sediments of North-East Sarawak	1058
<i>Mohd Syamim Ramli, Eswaran Padmanabhan</i>	
IPTC 14555 Heat Flow Measurements and Mapping from BSR to Constrain the Evaluation of the Deepwater South Makassar Basin	1065
<i>Romain Courel, Paul Begg, Michelle Kim, Leo Kokoh, Khifni Nasif</i>	
IPTC 14558 Improved Petrology & Petrophysics Characterization of Complex Siliciclastic Reservoirs through Integrated Logs Analysis- Case Study in South China Sea	1087
<i>Cai Jun, Guo Shusheng, Gao Yongde, Li Huigeng, Xian Chenggang</i>	
IPTC 14560 Single-Well Chemical Tracer Test Experience in the Gulf of Guinea to Determine Remaining Oil Saturation	1098
<i>C. Romero, N. Agenet, A. N. Lesage, G. Cassou</i>	
IPTC 14561 Exploring the Interwell Reservoir Space with Crosswell Imaging and Interpretation: An Example of Multi Scale Data Integration from Indonesia	1111
<i>T. Handayani, M. Taslim, Z. Irwanzah, D Kurniadi, S. Dogra, A. Nalonnil, P. Carillo Reyes</i>	
IPTC 14563 Hybrid Power Generation for Offshore Wellhead Platform: A Starting Point for Offshore Green Energy	1120
<i>Roongwit Rongsopa</i>	
IPTC 14564 Gas Flare Reduction through Operational Enhancement and Innovative Modification and Projects	1135
<i>Ali Hussain Al-Kandari, Ashok Kumar, Omar Sadeq</i>	
IPTC 14567 3D Multi-scale Tomostatics using First Arrivals	1149
<i>Hua-Wei Zhou, Peiming Li, Zhihui Yan, Fang Yuan</i>	
IPTC 14570 Integrating the Geophysical Characterization of Seismic Thin Beds with Stochastic Reservoir Modeling: A Case Study From the Kutei Basin (Offshore Kalimantan, Indonesia)	1166
<i>G. R. Cavanna, E. Caselgrandi, E. Corti, A. Amato Del Monte, M. Fervari, M. Bello, J. Aruan, C. Golding</i>	

IPTC 14571 Design, Implementation and Performance of a Down-Dip WAG Pilot	1183
<i>Manoj K. Choudhary, Bimal Parekh, Ed Dezabala, Dustin Marks, Judith Zambrano, Pujiyono</i>	
IPTC 14573 Comparison of Fluid Prediction Success between AVO and Bright Spot Techniques in the Marco Polo Field, the Gulf of Mexico	1197
<i>Krongrath Suwannasri, Robert Tatham, Kyle Spikes</i>	
IPTC 14578 Sequence Stratigraphy of Clastic Overburden of the Miocene Carbonate Gas Province in Central Luconia, Offshore Sarawak, NW Borneo: Implications for Hydrocarbon-Retention Capacity	1208
<i>Eduard Kosa, Amirool Hafrez, Kenneth Boey, Anuar Azhar, Geoffrey Wee</i>	
IPTC 14582 Advancement and Application of Thermal Recovery Technology in Heavy Oil Reservoir in Shengli Petroleum Province	1214
<i>Sun Jianfang, Li Zhenquan, Wu Guanghuan</i>	
IPTC 14583 Classification of Microporosity in Carbonates: Examples from Miocene Carbonate Reservoirs of Central Luconia, Offshore Sarawak, Malaysia	1224
<i>Md Habibur Rahman, Bernard J Pierson, Wan Ismail Wan Yusoff</i>	
IPTC 14585 A Pragmatic Approach to Enhanced Performance of Slim Mono-Bore Wells	1236
<i>Lam Fei Shiong</i>	
IPTC 14588 On the Concept and Challenges of Water Saturation Determination and Modeling in Carbonate Reservoirs	1246
<i>Rahim Masoudi, M Hafidz A Halim, Hooman Karkooti, Mohamad Othman</i>	
IPTC 14591 Geophysical Attributes to Improve the 3D Geopressures Prediction in HP/HT Environment	1255
<i>Patrizia Cibir, Marco Mantovani, Anna Moglia</i>	
IPTC 14592 Investigations of Flow Behavior in Well-Head Jumpers during Restart with Gas and Liquid	1264
<i>Angelina Coletta, Michael Volk, Emmanuel Delle-Case</i>	
IPTC 14595 Capillary Tubing Advancements for Enhanced Production and Reduced Environmental Impact – A Case History Review	1280
<i>Brad Pate, Rick Stanley</i>	
IPTC 14600 Real-Time Evaluation of CO₂ Production and Sequestration in a Gas Field	1296
<i>M. Aschehoug, C. S. Kabir</i>	
IPTC 14601 IPTT vs. Well Testing and Deconvolution Applications for Thinly Bedded Reservoirs: Case Studies from the Gulf of Thailand	1310
<i>W. Kiatpadungkul, S. Daungkaew, S. Chokthanyawat, S. Promkhot, C. Ayan, F. Houtzager, C. Platt, A. Storer, P. Tabmanee, P. Panyarporn, S. Voradejviveskrai, T. Limniyakul, N. Last</i>	
IPTC 14604 Field Scale Geomechanical Modelling Using a New Automated Workflow	1332
<i>Silvia Monaco, Gaia Capasso, Stefano Mantica, S. Donato, Deepak Datye, Roberto Vitali</i>	
IPTC 14605 A 2D on 3D pilot for 4D Feasibility: A Success on a Carbonate Field	1345
<i>Christian Hubans, Enrico Zamboni, Emmanuelle Brechet, Hubert Leher, Alain Giovannini</i>	
IPTC 14609 Simulation of Hydrate Dynamics in Reservoirs	1351
<i>M. T. Vafaei, B. Kvamme, A. Chejara, K. Jemai</i>	
IPTC 14618 Sinphuhorm, Thailand Pipeline Integrity Management Utilizing Advanced Monitoring Techniques	1364
<i>Lawrence M. Cenegy, Clyde A. McAfee, Rachan Engchanil, Apisith Thatsana</i>	
IPTC 14619 Integrated Crosswell Seismic Application Across a Giant Carbonate Field for High Resolution Reservoir Properties Estimation	1381
<i>F. Miranda, C. D'Agosto, S. Terzuoli, D. Grana</i>	
IPTC 14621 Modeling Gas Migration, Distribution, and Saturation in a Structurally and Petrologically Evolving Tight Gas Reservoir	1387
<i>John S. Davis, Isolde Belien, Xiaoli Liu, Susan Dougherty</i>	
IPTC 14623 Unlocking the Limits of Sand Screen Reliability with an Innovative and Self-Adapting Technology	1399
<i>C. S. Yeh, T. J. Moffett, C. S. Mayer, N. S. Bailey, D. A. Howell, M. D. Barry, M. T. Hecker, A. Green, G. A. Gillespie, C. A. Hall, S. McNamee</i>	
IPTC 14624 Thin-skinned Thrust-fault Complex in the Phu Quoc Basin, SW Vietnam	1409
<i>Emil Bach Madsen, Stig A. Schack Pedersen</i>	
IPTC 14629 Fiber Optic Technology for Reservoir Surveillance	1417
<i>J. M. V. A. Koelman, J. L. Lopez, J. H. H. M. Potters</i>	
IPTC 14630 Complexity of Minifrac Tests and Implications for In-Situ Horizontal Stresses in Coalbed Methane Reservoirs	1427
<i>Zhi Fang, Abbas Khaksar</i>	
IPTC 14631 The Petrophysics of Shale Gas Reservoirs: Technical Challenges and Pragmatic Solutions	1440
<i>Vivian K. Bust, Azlan A. Majid, Joshua U. Oletu, Paul F. Worthington</i>	
IPTC 14641 Process Optimisation in Acid Gas Removal System	1455
<i>Jiranoot Suebsook, Achapan Eksaengsri, Supot Lertsakulsup, Korakot Suwanvesh, Jeerisuda Iswigrat, Thitinun Sillapacharn</i>	
IPTC 14644 Advancements in Openhole Completion Technology - Establishing and Sustaining Differentiating Sand Control Completion Performance	1468
<i>M. D. Barry, M. T. Hecker, C. S. Yeh, T. J. Moffett</i>	
IPTC 14652 Quantification of Pore Structure in a Miocene Carbonate Build-up of Central Luconia, Sarawak and Its Relationship to Sonic Velocity	1478
<i>Nor Sara Izzatti Bashah, Bernard J. Pierson</i>	
IPTC 14663 A Multidisciplinary Integrated Approach to Natural Fracture Detection, Characterization and Modeling and Its Application	1489
<i>Zhaoming Wang, Huiwen Xie, Gengxin Peng, Duoming Zheng, Feng Shen, Yang Zhang</i>	

IPTC 14669 Side-wall Coring: Advanced In-situ Freeze-Core Technique	1496
<i>Aman J. Arora, Abhishek D. Bihani, Chaitanya M. Padalkar, Abhishek D. Punase, Samarth D. Patwardhan</i>	
IPTC 14673 Investigating the Effect of Polymer Gels Swelling Phenomenon under Reservoir Conditions on Polymer Conformance Control Process	1507
<i>Tho N. Tu, Wisup Bae</i>	
IPTC 14676 Using Marketing Technology in Reservoir Engineering: The Application of Data Driven Predictive Analysis on a Mature Oil Field	1518
<i>Ellen Zijlstra, Gaël Riethmuller, Susanne Schäftlein, Salima Mahruqi, Ali Naamani, Frank Wolters</i>	
IPTC 14677 Appraising Unconventional Resource Plays: Separating Reservoir Quality from Completion Effectiveness	1524
<i>C. Cipolla, R. Lewis, S. Maxwell, M. Mack</i>	
IPTC 14679 Laboratory Study on Mass Transfer of ASP Flooding	1551
<i>Jialu Wang, Fashun Shi, Xu Jia</i>	
IPTC 14685 Enhancing Recovery in High Salinity Oil Reservoirs through Optimized Polymer Flood	1563
<i>M. Algharaib, A. Alajmi, R. Gharbi</i>	
IPTC 14687 New Approach and Innovative Technology Application in Complex and Mature Reservoirs— Achieving Ultimate Reserve Recovery and Economic Objectives for Huizhou Field, Offshore South China	1580
<i>Lian Jihong, Huang Yingshi, Thanh Tran, William Scaruffi, You Hongqing, Zou Xiaoping, Pan Yao, Tian Xiang, Li Yanping, Francisco Castellán, Jeremias Guitarte, T Wayne Brewster II, Parlindungan Monris Halomoan, Amarjit Singh Bisain, Liu Yang</i>	
IPTC 14701 Crosswell Seismic and Electromagnetics: New Advances in Interwell Imaging	1596
<i>A. Nalonnil, P. Zhang, B. Marion, J. G. Phillips, S. Dogra</i>	
IPTC 14704 Enhancing Coal Seam Gas Exploitation with Crosswell Seismic: Case Histories	1604
<i>S. Dogra, T. Morgan, A. Nalonnil, M. Shafiq, B. P. Marion</i>	
IPTC 14705 Development of Economical Gas-tight Casing Connection for Low Pressure Gas Field Application	1613
<i>Jiandong Wang, Lineng Yang, Shengyin Song, Xiaoming Yi, Dongfeng Li, Wei Zhang</i>	
IPTC 14706 Comparison of Fracture Conductivities from Field and Lab	1625
<i>Desheng Zhou, Gang Zhang, Min Ruan, Anwu He, Dengfeng Wei</i>	
IPTC 14717 Drilling Systems Automation - A Technology That is at a Tipping Point	1631
<i>John P De Wardt, Jim Rogers</i>	
IPTC 14720 Use of Nano-Metal Particles as Catalyst Under Electromagnetic Heating for Viscosity Reduction of Heavy Oil	1641
<i>J. H. Greff, T. Babadagli</i>	
IPTC 14729 Sequence Stratigraphic Interpretation of the Cretaceous through Miocene Section, Barcoo Sub-basin, Browse Basin, Northwest Shelf, Australia	1654
<i>Kasira Laitrakull, Paul Weimer, Renaud Bouroullec</i>	
IPTC 14730 Field Development and Production Optimization Integrating Reservoir Compaction, Sand Production and Wellbore Stability Modeling: A Field Case Study	1680
<i>Rene Alcalde, Cem Ozan, Gerardo Jiménez Malpica, S. Alejandro Pérez, Jose Alvarellos, Marian Maggie</i>	
IPTC 14733 Ranking Production Potential Based on Key Geological Drivers - Bakken Case Study	1696
<i>Robin S. Pilcher, Jessica McDonough Ciosek, Kelsey McArthur, John Hohman, Peter J. Schmitz</i>	
IPTC 14736 4D Seismic Integration with Production Analysis for Pressure–Saturation Detection	1709
<i>M. S. Salbiah, B. Shuhadah, A. H. Mohd Firdaus</i>	
IPTC 14737 Successful Application Of Ultrasound Technology To Detect Sand Producing Intervals In The Wellbore	1713
<i>Farik Mohd Daud, Hasni Jusoh, Azhan Mohamed, Then Eii Feng, Sathish Kumar Batumelai</i>	
IPTC 14749 Integrated Risk Assessment and Management of Oil Spills in the Gulf of Thailand	1725
<i>L. Taylor, J. Suthin, B. King</i>	
IPTC 14752 A Methodology of Well Abandoning in Offshore Field	1730
<i>B. T. H. Marbun, B. Cayhoniario, S. Sinaga</i>	
IPTC 14753 The Comparative Study of Thermal and Chemical EOR in Unconsolidated Siliciclastic Reservoir Containing Medium Heavy Oil	1738
<i>Jutaratt Srisawadwattana, Pasawich Sriyanong, Kasama Itthisawatpan, Svein Tore Opdal, Thanapong Ketmalee</i>	
IPTC 14754 Reducing Gas Flaring by Improving Turndown Ratio of Centrifugal Compressor	1758
<i>Falah Al-Azmi, Chirag Parikh</i>	
IPTC 14755 A Methodology of Underbalanced Drilling Design in Depleted Reservoir	1765
<i>B. T. H. Marbun, S. Z. Sinaga, I. Hariz, C. Lumbangaol</i>	
IPTC 14760 DeepLift – The Innovative Gaslift Bypass Packer Technique	1778
<i>Chatchai Kongdachudomkul, Thanawee Kreethapon, Pattana Pittrapan, Suwin Sompopsart, Wararit Toempromraj, Annuay Prayadsup, Pramote Phloi-Montri</i>	
IPTC 14767 S1 Asset Integrity Model and Management System	1792
<i>Apisak Sri-Amorntham, Rounwit Chinpongpan, Anan Chansakra</i>	
IPTC 14770 Workflow For Surface Multiple Attenuation in Shallow Water	1810
<i>Barry Hung, Kunlun Yang</i>	
IPTC 14772 Flow Unit Characterization Aided by Quantified Secondary Porosity Result from High Resolution LWD Images in Heterogeneous Carbonate Reservoir; A Novel Approach	1817
<i>Yogesh Bahukhandi, Somenath Kar, Chandan Majumdar, Dipanka Behari Roy, U C Bhatt</i>	
IPTC 14774 Application of Molecular Simulations to CO₂-EOR: Phase Equilibria and Interfacial Phenomena	1829
<i>Dai Makimura, Makoto Kunieda, Yunfeng Liang, Toshifumi Matsuoka, Satoru Takahashi, Hiroshi Okabe</i>	

IPTC 14781 Identification, Significance and Correlation of Mass Transport Complexes in Malaysian Deep Water Fields	1851
<i>Hong Chin Weng, Eleanor Rollett, Kelly Maguire, Greg Stone, Serge Hayon, Liau Boon Leong</i>	
IPTC 14784 Effect of Heat Treatment on Mechanical Properties of Expansion Cone Material	1865
<i>Sayyad Zahid Qamar, Tasneem Pervez</i>	
IPTC 14785 Design a Model for Natural Gas Value Chain with Creative Industry Cluster with Market Viewpoint	1876
<i>Ahmad Mousaei</i>	
IPTC 14793 4D Seismics Improves Reservoir Management - A Case Study On Angsi	1886
<i>Dipak Mandal, Wahyudin Suwarlan, Roslan Abu Mansur, Kartina Ali, Rahim Masoudi</i>	
IPTC 14796 Rock Type Classification and Saturation Modeling in a Heterogeneous Low-Permeability Reservoir from Offshore India	1893
<i>Gunja Agarwal, Rajiv Sagar, Bijay Kumar Behera</i>	
IPTC 14797 Petroleum System Analysis Using Geochemical Studies, Isotope and 1D Basin Modeling in Hendijan Oil Field, SW Iran	1905
<i>Ghanbar Hassanzadeh, Mehdi Kobraei, Asghar Ahanjan, Rahim Bagheri Tirtashi, Mehrab Rashidi, Mehdi Khaleghi</i>	

VOLUME 3

IPTC 14798 Use of Reservoir Simulation to Help Gas Shale Reserves Estimation	1916
<i>Michele Segatto, Ivan Colombo</i>	
IPTC 14800 Time-lapse Microgravity Application for Estimating Fluid Density Changes of Multilayer Reservoir Using DSMVD Technique	1930
<i>Susanti Alawiyah, Djoko Santoso, Wawan Gunawan A. Kadir, Toshifumi Matsuoka</i>	
IPTC 14801 Unconventional Reservoirs Probabilistic Reserve Estimation Using Decline Curves	1942
<i>Antonio Minin, Laura Guerra, Ivan Colombo</i>	
IPTC 14802 Integrated Subsurface Analysis for Conceptual Geological Model Development of Basement, Ingoli Field, Cambay Basin, India	1960
<i>M. Y. Farooqui, Ujjal Ghosh, Arjit Ray, Saurabh Datta Gupta, Debjani Sarkar, Priyam Ghosh, Ramachandra Srigriraju, Rajiv Sagar, Chandramani Shrivastva, Sutapa Bhadra, Karthik Kumar Natarajan, Gunja Agarwal, Dhires Govind Rao, Alexis Carrillat</i>	
IPTC 14806 Integrated Well Log Electrofacies and Seismic Facies Modeling for Stratigraphic Trap Identification in Carbonate Reservoirs, North Oman	1974
<i>Patraporn Lerlammaphakul, Suppakarn Thanatit, Salam Mahmood Al Busaidi, Wendy R. Russell, Krongpol Seusuthiya</i>	
IPTC 14807 Gas Lift Journey to Maximize the Asset Value in Platong Field, Gulf of Thailand	1988
<i>Chalathon Boonmeelaprasert, Simon P. McCartney, Sawin Kulchanyavivat, Hari P. Macharla, Khathayut Senitantikul</i>	
IPTC 14808 Indonesia "Tunu 18 days" Project Case History: Innovations and New Technologies Bringing the Well Construction Performance to Unthinkable Levels	1999
<i>Samir Oumer, Fajarianto Widwibowo, Fata Yunus, Jean-Claude Choux</i>	
IPTC 14817 Application of PSDM Imaging for Reservoir Characterisation in the Northern Malay Basin: A Case Study	2008
<i>Loic Michel, Chee Hau Hoo, Hampson Russell, Mark J. Flynn</i>	
IPTC 14823 Review of Ultrashort-Radius Radial System (URRS)	2017
<i>S. K. Putra, S. Z. Sinaga, B. T. H. Marbun</i>	
IPTC 14830 Interpreting Geological Systems from Seismic Attributes: Reasons for Caution from the Northern Malay Basin	2023
<i>Duncan C. Barr, Mark J. Flynn, Ong Cheng Sun, Krishnan Dharmarajan</i>	
IPTC 14832 Simulation and Analysis of Production Induced Reservoir Compaction using Geomechanical Formulation of Fracturing Technology (GFFT) for Stress Prediction	2033
<i>A. H. Haghi, R. Kharat, M. R. Asef</i>	
IPTC 14834 Modelling of Permeability Reduction Caused by Fine Scaled lamination of Deeply Buried Aeolian Sediments	2043
<i>Joachim Strobel, Titte Nurul Fatima, Otto Sill</i>	
IPTC 14841 Cased Hole Formation Testing in Challenging Operational Conditions Reveals Reservoir Fluids Distribution: South China Sea Case Study	2054
<i>Huang Yingshi, You Hongqing, Zou Xiaoping, Jeremias Guitarte, Xian Chenggang, Liu Weimin, Cheng Xiang, Guo Hongzhi</i>	
IPTC 14846 Mathematical Modeling of Fines Fixation in the Sandstone Cores Soaked by MgO Nanofluid	2065
<i>A. Habibi, M. Ahmadi, A. Bastami, P. Pourafshary, Sh. Ayatollahi</i>	
IPTC 14847 Combined Energy Recovery from Coal Seam Gas Reservoirs and Geothermal Resources (Simulation Study)	2077
<i>Alireza Salmachi, Manouchehr Haghghi, David Dixon, Peter Hart, Ashley Jachmann</i>	
IPTC 14857 Seismic Full-Waveform Inversion Using a Compressed Simultaneous Sources and Receivers Scheme	2089
<i>Aria Abubakar, Tarek M. Habashy, Guangdong Pan</i>	
IPTC 14863 The Practice and Evolution of Torque and Drag Reduction: Theory and Field Results	2096
<i>John E. McCormick, Chad D. Evans, Joe Le, TzuFang Chiu</i>	
IPTC 14865 Electromagnetic Casing Inspection Tool for Corrosion Evaluation	2109
<i>T. M. Brill, J. L. Le Calvez, C. Demichel, E. Nichols, F. Zapata Bermudez</i>	
IPTC 14866 Trouble Free Drilling with Casing Drilling; A Process Focused on Preventing the Drilling Problems	2123
<i>Moji Karimi, Calvin Holt, Eric Moellendick</i>	

IPTC 14867 24X7 Monitoring During Long Term Testing Using Multiphase Flow Meter In HPHT Exploratory Well Located In Remote Area - A Case Study	2132
<i>S. Packirisamy, Abdullah Al-Ibrahim</i>	
IPTC 14868 RasGas Rigless Drift Experience: New Technology and Evolving Best Practice - North Field, Qatar	2142
<i>Russell R. Van Nuis, Larry Mercer, Timothy I. Morrow</i>	
IPTC 14869 Experimental Evaluation of CO₂ Injection in a Heavy Oil Reservoir	2159
<i>V. Parasiliti Parracello, M. Bartosek, M. De Simoni, C. Mallardo</i>	
IPTC 14879 Benefits of PSTM and PSDM Reprocessing in the Exploration of the Deep Malay Basin	2168
<i>Patrick Charron, Patrick Ravaut, Alain Riou, Jerome Sirgue, Mohd Noor Zuwaimi B. Md Yasin</i>	
IPTC 14882 Geomechanical Evaluations Helped Successful Drilling Operation and Completion in Mature Fields with Depleted Reservoirs Interbedded with Weaker Formations	2172
<i>Abbas Khaksar, Khalil Rahman Adrian White, Sadegh Asadi, Juanih Ghani, Keith Stewart</i>	
IPTC 14888 Aluminium Alloys for Casing and Tubing	2185
<i>V. S. Basovich, M. Ya Gelfgat, D. V. Basovich, I. N. Buyanovskiy, R. S. Alikin, A. V. Vakhrushev, V. V. Sledkov, D. S. Loparev, V. V. Sapunzhi</i>	
IPTC 14889 Crosswell Seismic Applications in Tight Gas- Case Studies	2195
<i>B. P. Marion, A. Nalonnil, S. Dogra</i>	
IPTC 14897 A Comparison of Windfall Tax Methodologies in Different Fiscal Regimes	2202
<i>Nathan Bock, Lourdes R. Rodriguez</i>	
IPTC 14901 Reservoir Pressure Prediction Using Time-Lapse Seismic Prestack Elastic Parameter Inversion Method	2212
<i>Zhao Wei, Zhu Zhenyu, Jiang Xiudi</i>	
IPTC 14913 A Paradigm Shift in Testing and Completion of Deep HPHT Exploration Wells - Polished Bore Receptacle (PBR) Improves Results and Operational Flexibility	2222
<i>Anwar Ibrahim, A. Manimaran, S. Packirisamy, Abdullah Reda Al-Ibrahim</i>	
IPTC 14915 Design of an ASP flood in a High-Temperature, High-Salinity, Low-Permeability Carbonate	2234
<i>David B. Levitt, Sophie Dufour, Gary Pope, Danielle Morel, Pascal Gauer</i>	
IPTC 14917 Compact Oil-water Separation using the InLine ElectroCoalescer and the Cyclonic DeWaterer	2253
<i>R. W. Westra, M. R. Akdim, E. De Haas, A. Hannisdal</i>	
IPTC 14918 Use of CO₂ as Solvent during Steam-Over-Solvent Injection in Fractured Reservoirs (SOS-FR) Method for Heavy Oil Recovery	2263
<i>K. Naderi, T. Babadagli</i>	
IPTC 14919 Multi-scale Formation Evaluation of Tight Gas Resources	2273
<i>Mark Knackstedt, Alexandra Golab, Anna Carnerup, Tim Senden, Alan Butcher, Aukje Benedictus, Lutz Riepe</i>	
IPTC 14920 Managing Base Decline in a Big Gas Business	2282
<i>Kirk Baksh, Pete Jackson</i>	
IPTC 14924 Carbon Dioxide Sequestration in Dolomite Rock	2292
<i>I. M. Mohamed, J. He, H. A. Nasr-El-Din</i>	
IPTC 14928 Reservoir Characterization Begins at First Contact with the Drill Bit	2318
<i>S. Shayegi, C. S. Kabir, F. If, S. Christensen, K. Kosco, J. Casusus-Bribian, K. Hasan, H. Moos</i>	
IPTC 14931 Mitigating Compaction Damage in Real-Time for Openhole Sand Control Applications	2331
<i>Denise M. Earles, Marc Samuelson, Carl W. Stoesz, Nilufer D. Surveyor, Jeremy G. Pearce, Hans Dejongh</i>	
IPTC 14932 Challenges During Shallow and Deep Carbonate Reservoirs Stimulation	2349
<i>M. A. Mahmoud, H. A. Nasr-El-Din</i>	
IPTC 14933 Integrated Approach to Quantify L80 Tubing Corrosion for High-Rate Sour Gas Wells	2359
<i>W. Sun, S. Ling, J. L. Pacheco, M. Asmann, N. M. Nor, M. S. Kersey, L. Morshidi, R. S. Nisbet</i>	
IPTC 14935 Automated Wellbore Stability Systems - Experience with Pore Pressure Modeling	2367
<i>Stefan Wessling, Anne Bartetzko, Xiaowei Wang, Jianyong Pei, Thomas Dahl</i>	
IPTC 14936 Using Research-vetted, Actionable Leading Indicators to DRIVE Safety Performance and Operational Excellence	2377
<i>Joe Stough, Watana Wichienrut</i>	
IPTC 14940 Evaluation in Data Rich Fayetteville Shale Gas Plays—Integrating Physics-based Reservoir Simulations with Data Driven Approaches for Uncertainty Reduction	2387
<i>Yitian Xiao, Rainer Van Den Bosch, Faye Liu, Kurt Steffen</i>	
IPTC 14944 Experimental Study on the Phenomenon of Barite Sag	2406
<i>Ali Parvizinia, Ramadan Ahmed, Samuel Osisanya</i>	
IPTC 14946 The Use of Risk-Based Inspection for Aging Pipelines in Sirikit Oilfield	2420
<i>Paison Areniyom</i>	
IPTC 14949 Instrumentation and Automation Projects: The Value Evaluation Dilemma	2431
<i>Sarah Chandrasekar, Surya Rajan</i>	
IPTC 14952 An Experimental Investigation on use of Nanoparticles as Fluid Loss Additives in a Surfactant – Polymer Based Drilling Fluid	2436
<i>Jayanth T. Srivatsa, Malgorzata B. Ziaja</i>	
IPTC 14955 Adding Value to a Mature Gas Field by Re-analysing and Integrating Old and New Dynamic Data - Immortelle Gas Field, Trinidad and Tobago	2455
<i>Iannie Roopa</i>	
IPTC 14959 Mini-DST Application For Thin Layer Reservoir In South Oman	2462
<i>Muhammad Mirza, Hassan Al Saadi, M. Rizvi Shihab, Abdullah Al Wardi, M. Fakhur Razi, Zul Anwar, John Zaggas, Mohd Shafie Jumaat, Aming Kusumadajaja</i>	

IPTC 14962 Anisotropic Imaging of Okubotin 3D, Onshore Niger Delta	2477
<i>A. A. Oni, G. Madiba, B. Ozumba</i>	
IPTC 14966 Novel Reciprocating Submersible Pumping Technology for Performance Improvements in Oil Production	2487
<i>Zhigang Wang</i>	
IPTC 14968 The Evolution of the Drill String Design on Sour Field (Puguang) to Improve Performance and Safety Margins in Sour Environments	2497
<i>Vincent Flores, Kamal El Bachiri, Fei Li, Yumin Li, Da Zhang</i>	
IPTC 14974 Numerical Simulation of ES-SAGD Process in Athabasca Oil Sands with Top Water and Gas Thief Zones	2508
<i>Xia Bao, Zhangxin Chen, Hui Deng, Ziqiang Guo, Song Yu</i>	
IPTC 14980 Blended Learning: Finding the Right Mix	2524
<i>G. Oyetola, E. Efan-Okon</i>	
IPTC 14981 Evaluation of Factors in Horizontal Well Recovery in the Pattani Basin in the Gulf of Thailand	2532
<i>Michael S. Harr, Siriporn Chokasut, Chanapol Bhuripanyo, Pattra Viriyasittigun, Abd Rahman Harun</i>	
IPTC 14993 Deepwater Infrastructure Integrity Assurance - State of the Art	2538
<i>Young-Woong Lee, Heine H Gerretsen, Humberto Figueroa, Damodaran Raghu</i>	
IPTC 15009 A New Approach for Gas Fields Development within Uncertain Business Context	2541
<i>Roberto Marchini, Maria Pasqualina Calvarano, Giacomo Cocchi, Marco Botta</i>	
IPTC 15015 Water Production Surveillance Workflow using Neural Network and Bayesian Network Technology: A Case Study for Bongkot North Field, Thailand	2550
<i>Roland Hermann, Suwaluck Ratanavanich, Sevaphol Iemcholvilert, Jonathan Nitura, Rossawan Chandakaew, Chawiwian Jiraratchwaro, Siritwat Vitoonkijvanich, Sawatdiwong Sarisittitham</i>	
IPTC 15017 Dynamic Local Grid Refinement for Multiple Contact Miscible Gas Injection	2562
<i>V. S. Suicmez, D. W. Van Batenburg, T. Matsuura, M. Bosch, D. M. Boersma</i>	
IPTC 15026 Worldwide Second Longest 5½ x 7 in. Expandable Cased Hole Liner Enables Sustainable Injection across the Reservoir in Long Radius Power Water Injector Well	2578
<i>Juan Manuel, Sami S. Bu Zaid, Mohammed Hameli, Stacey Andrews</i>	
IPTC 15029 An Integrated Reservoir Simulation-Geomechanical Study on Feasibility of CO2 Storage in M4 Carbonate Reservoir, Malaysia	2583
<i>Rahim Masoudi, Mohd Azran Abd Jalil, David Press, Kwang-Ho Lee, Chee Phuat Tan, Leo Anis, Nasir Darman, Mohamad Othman</i>	
IPTC 15039 Gulf of Thailand Super Cube - Technical Challenges in the Reprocessing of 40 3D Seismic Surveys, 15,000sq.km	2601
<i>Y. Phan, K. Lee, K. Soh, J. Sun, G. Livesay, H. Hsiao, J. Kantarakorn</i>	
IPTC 15040 Hybrid Completion of Gaslift and Beam Pump	2609
<i>Apivat Nadoon, Wararit Toempromraj, Suwin Sompopsart, Nithipoom Durongwattana, Amnuay Prayadsup, Adisak Suwanmisara</i>	
IPTC 15048 Using 3D Beam Q Migration For Imaging In The Presence Of Gas Accumulations In The Overburden	2619
<i>Yi Xie, Carl Nofjors, James Sun, Kefeng Xin, Barry Hung, Wayne Zanussi, Soo Khok Ping</i>	
IPTC 15050 TTI RTM using Variable Grid in Depth	2627
<i>Nanxun Dai, Wei Wu, Wei Zhang, Xiaofeng Wu</i>	
IPTC 15055 Investigating the Effect of Hysteresis Modelling on Numerical Simulation of Immiscible WAG Injection	2634
<i>S. Javad Hosseini, Rahim Masoudi, S. Mousa Mousavi Mirkalaei, Abdolrahim Ataie, Birol M. R. Demiral</i>	
IPTC 15074 The Development of Environmental Best Practices by the Industry	2651
<i>Emmanuel Garland</i>	
IPTC 15076 Remote-Activation Safety Valves and Coiled Tubing, Jointed-Tubing Hybrid String: A Novel Well-Intervention Technology	2660
<i>Asif Ehtesham, Robert Howard</i>	
IPTC 15087 A Predictive Model for Sand Production in Poorly Consolidated Sands	2668
<i>Amos S. Kim, Mukul M. Sharma, Harvey Fitzpatrick</i>	
IPTC 15089 Interpreting Electro-facies and Fractures for an Oligocene Sandstone Reservoir Using Borehole Images Acquired in Synthetic Drilling Fluids- with Full Core Calibration: a Case Study from Songkhla Basin, Thailand	2679
<i>Bingjian Li, Geoff Peace, Ronald The, Sirinya Maykho, Sherif Farag</i>	
IPTC 15095 Multistage Fracturing in Horizontal Open Hole Completions: Case Studies for Low Permeability Formations in China	2690
<i>Eric Hill, Jiang Xiaoming, Lin Yongxiang, Wenquan Li, Guoyang Wang</i>	
IPTC 15113 Searching for the Missing Link: The Regressive System Tract - Seismic Stratigraphic Evidence from the Southern Gulf of Thailand	2704
<i>John D. Pigott, Rui Zhai, Kulwadee L. Pigott, Tatiya Tonianse</i>	
IPTC 15117 Evaluation of an Environmentally Acceptable Colloidal Silica-Based Conformance Systems	2725
<i>Prajakta Patil, Bjørn Bøye, Murugan Devaraj</i>	
IPTC 15118 Determining Matrix Treatment Performance From Downhole Pressure and Temperature Distribution: A Model	2734
<i>Philippe M. J. Tardy, Frank F. Chang, Xiangdong Qiu</i>	
IPTC 15140 Enhancement of IFT Reduction in Surfactant Flooding by Branched Alcohols	2751
<i>Mariyamni Awang, Iskandar Dzulkarnain, Mohamed Wahyudeen Zakaria</i>	

IPTC 15144 Shallow Pays in Sirikit Main Oilfield, Phitsanulok Basin, Onshore Thailand: Their Habitat and Identification on 3D Seismic Data	2758
<i>Nuntanut Laoniyomthai, Tanaporn Charoenpun, Farid Saifuddin</i>	
IPTC 15152 Nanotechnology Applications in Oil and Gas Exploration and Production	2770
<i>Sergio Kapusta, Leandro Balzano, Paul Te Riele</i>	
IPTC 15161 Challenges in 3D Geocellular Modelling of Complexly Faulted - Stacked Reservoirs: Case Study from Existing and Potential Waterflood Areas in Sirikit Field, Onshore Thailand	2775
<i>Hari Primadi, Tanaporn Charoenpun, I Nengah Nuada, Sureena Matha</i>	
IPTC 15167 Redefining a Sequence Stratigraphic Framework for the Miocene to Present in Brunei Darussalam: Roles of Local Rectonics, Eustacy and Sediment Supply	2790
<i>Jose Torres, Anthony Gartrell, Nicholas Hoggmascall</i>	
IPTC 15171 A Regional Approach to Understanding Basin Evolution and Play Systematic in Brunei - Unearthing New Opportunities in a Mature Basin	2802
<i>Anthony Gartrell, Jose Torres, Nick Hoggmascall</i>	
IPTC 15175 Deep Workover Challenges of an HP/HT Sour Gas Well - Case History of Mutriba 12	2807
<i>M. J. Al-Saeedi, F. A. Al-Fayez, D. Al-Enezi, V. S. Mahesh, M. N. A. Al-Mudhaf, D. C. McKinnell</i>	
IPTC 15177 Building Technical Excellence: E&P Competency Development in India	2821
<i>Kenneth C. Ogle, Stuart D Burley, Taruna Magan, Nirmal Kumar Senapati, John Connor</i>	
IPTC 15179 Experimental Investigation of Salt Precipitation during Gas Injection into a Depleted Gas Reservoir	2833
<i>Hassan Golghandashii, Mohammad Saadat, Saeed Abbasi, Abbas Shahrabadi</i>	
IPTC 15180 How to Determine the Gas Pipeline Pigging Cycle	2841
<i>Li Daquan, Ai Muiyang, Zhang Peng, Miao Qing, Wang Yubin</i>	
IPTC 15199 The Seria Field, Brunei : 80 Years On, Near Field Exploration Going Strong	2849
<i>John Church, Bong Poh Yuk</i>	
IPTC 15205 Well Integrity Remediation – A Challenge for Swellable Technology	2853
<i>Nithipoom Durongwattana, Wararit Toempromraj, Panit Jedsadawaranon, Suwin Sompopsart</i>	
IPTC 15208 World's First Demonstration Project of Natural Gas Hydrate (NGH) Land Transportation	2880
<i>Tomonori Nogami, Shigeru Watanabe, Satoo Nakai</i>	

VOLUME 4

IPTC 15209 Development of a Monitoring System on the Methane Hydrate Exploration	2888
<i>Tsutomu Hayashi, Eiichi Asakawa, Taku Okamoto, Hiroo Takahashi, Tatsuo Saeki</i>	
IPTC 15210 Making Wells Safer, Process Safety & Advanced Well Control Training	2895
<i>Bernd Van Den Brekel</i>	
IPTC 15214 Interpretation of Temperature Data During Acidizing Treatment of Horizontal Wells for Stimulation Optimization	2898
<i>M. Tabatabaei, D. Zhu, A. D. Hill</i>	
IPTC 15215 Application of Distributed Temperature Measurements to Estimate Zonal Flow Rate and Pressure	2914
<i>K. M. Muradov, D. R. Davies</i>	
IPTC 15219 The Modeling of Solvents Flow-Back in the Chemical Treatment to Remove Liquid Block	2931
<i>Chengwu Yuan, Mohabbat Ahmadi, Gary A. Pope, Mukul M. Sharma</i>	
IPTC 15221 TTI/HTI Anisotropy for Fracture/Faults Image inside Granite Basement	2944
<i>Z. Zhou, N. Ngoc, T. Borthwick, K. Zhao, K. H. Teng</i>	
IPTC 15222 Integrated Structural Modeling & Seismic Attributes Analysis for Fractured Basement Reservoir Identification in Pangea Block, South Sumatera Basin, Indonesia	2950
<i>Agung Budiman, Awali Priyono, Ari Samodra, Fatkhul Mu'in, Musalam Latuconsina</i>	
IPTC 15223 Novel Acid-Diversion Technique for Matrix Acidizing in Production and Injection Wells: Case Histories of Algeria	2960
<i>Kritsana Kritsanaphak, Julio Vasquez</i>	
IPTC 15230 Wettability Quantification – Prediction of Wettability for Australian Formations	2972
<i>Hussam Goda, Peter Behrenbruch</i>	
IPTC 15235 Self Standing Riser Offers Alternative to Conventional Deep Water Approach for Developing Marginal Deep Water Oil and Gas Resources	2992
<i>Keith K. Millheim, Geir Aune</i>	
IPTC 15240 Joint Inversion of Crosswell and Surface-to-Borehole Electromagnetic Data Constrained by Fluid-Flow Simulator	3012
<i>Aria Abubakar, Lin Liang, Tarek M. Habashy</i>	
IPTC 15255 Results of Sustainable Safety Performance by Building Safety Culture in a Multi-Cultural Workforce	3018
<i>Ahmad Qabazard, Bala Siva Srikanth Adivi</i>	
IPTC 15256 Mounds and Boundstone Facies in the Late Carboniferous–Early Permian Pha Nok Khao Formation-Equivalent of the Loei Syncline, Loei-Phetchabun Foldbelt: Implications for Reservoir Quality	3026
<i>Annette D. George, Shachar Lazar, John Booth</i>	
IPTC 15259 Interorganizational Relation: A Key Factor for Maintenance Contract Success	3032
<i>Tawee Limsontorn</i>	
IPTC 15267 Developing a Stage Tool for Cemented Back Monobore Completions with Open Hole Multi-Stage Systems in the Montney	3037
<i>Kyle Kimmitt</i>	

IPTC 15272 Evolution of Well-testing Methods and Multi-phase Metering Techniques in Gas Condensate Fields in Central Oman	3046
<i>A. R. A Al-Shukaily, M. U Srinivas</i>	
IPTC 15274 Economics of Gas-To-Liquid Processing: The Effect of Scaling on Profitability	3057
<i>O. V. Uzoh, R. E. Bretz</i>	
IPTC 15281 Drilling Optimization in Deep Horizontal Wells	3073
<i>Oscar Portillio Urdaneta, Mohammed Jahwari, Muhammad Nasrumminallah, Mohamed Al Sharafi, Badar Al Maashari, Rashid Al Zakwani, Michael Bugni</i>	
IPTC 15286 Modeling Basin-Scale Geomechanics Through Geological Time	3080
<i>T. Hantschel, B. Wygrala, M. Fuecker, A. Neber</i>	
IPTC 15287 Hydraulic Evaluation of Transport Gas Pipeline on Offshore Production	3086
<i>Zhaira Nava, Marisela Rojas, Nelson Martínez, Jorge Trujillo, Yobiris Rigual, Camilo González</i>	
IPTC 15297 Solutions to Seismic Resolution and Characterization Challenges in Offshore Thailand	3100
<i>Andrew Long</i>	
IPTC 15300 Fracture Characterization using Borehole Image Logs and Seismic Data to Define a Successful Drilling Target in the Fractured Basement - A Case Study from the Nam Con Son Basin, Southern Offshore Vietnam	3111
<i>Bingjian Li, Hoang Phuoc Son, Mai Van Binh, Lefranc Marie</i>	
IPTC 15302 Insights into the Petroleum Potential of the Australian North West Shelf and Arafura Sea Revealed by Regional 2D Seismic Data	3121
<i>A. Tripathi, W. B. Jones, R. Rajagopal</i>	
IPTC 15303 Integrated Facies Modeling Workflow for Methane Hydrate Reservoir along the Eastern Nankai Trough, Japan	3131
<i>Than Tin Aung, Satoshi Noguchi, Nobutaka Oikawa, Takayuki Kanno, Machiko Tamaki, Kunio Akihisa</i>	
IPTC 15306 Waterflood Conformance Control in Heavy Oil, Multilayer Reservoirs	3138
<i>E. Ali, R. Kalita, S. Hikmani, R. Mujaini, H. Jaspers</i>	
IPTC 15310 Pore Scale Visualization and Simulation of Miscible Displacement Process under Gravity Domination	3148
<i>Zeeshan Mohiuddin, Manouchehr Haghighi, Yvonne Stokes, Themis Carageorgos, Danny Gibbins</i>	
IPTC 15312 Fluorescent Nanobeads: A New Generation of Easily Detectable Water Tracers	3161
<i>Nicolas Agenet, Navid Moradi-Tehrani, Olivier Tillement</i>	
IPTC 15316 Enhancing Bioremediation of Oily Waste by Bioaugmentation	3169
<i>Juli Rusjanto, Gayatri Asmaradewi, Dian Safitri, Agus Jatnika</i>	
IPTC 15328 Hydraulic Fracturing in the Congo Onshore: Continuous Optimization Improves Productivity	3181
<i>Raffaele Peretto, Roberto Luis Ceccarelli, Johnny Falla, Fabrice Okassa, Loris Tealdi, Marco Rotondi</i>	
IPTC 15329 Smart Wells - A Key Enabler For Oilfield Developments In Brunei	3198
<i>Rob Turner</i>	
IPTC 15332 Azimuthal Anisotropy Evaluation Based on Wide Azimuth 3D Data for Fracture Analysis in Chonnabot Carbonate Reservoir	3210
<i>Phummarin Kliangglom, Eman Sulaeman, Wilawan Tunsoonthornjit, Tosapol Tongpet, Parichat Loboontert, Seehapol Uitsan, Heloise Lynn</i>	
IPTC 15334 Doubling the Production from a Mature Reservoir in North Kuwait– Challenges, Achievements & Lessons Learnt	3223
<i>H. B. Chetri, M. Raju, Harry Alam, Hussain Al-Ajmi</i>	
IPTC 15336 Numerical Simulation of Hydraulic Fracturing in a Stacked Tight Gas Condensate Reservoir	3233
<i>Abdollahim Ataei, Wong Tiong Hui, Keng Seng Chan, Raymond Lau, Mei-Ee Yeap</i>	
IPTC 15338 Novel Insight into Foam Mobility Control	3241
<i>Mohammad Simjoo, Yufei Dong, Alexey Andrianov, Mohand Talanana, Pacelli L. J. Zitha</i>	
IPTC 15344 Management of Ageing Storage Tanks	3256
<i>Neil Henry</i>	
IPTC 15345 Overpressures in the Northern Malay Basin: Part 1 - Origin and Distribution	3260
<i>Mark Tingay, Chris Morley, Andrew Laird, Orapan Limpornpipat, Kanjana Krisadasima, Suwit Pabchanda, Hamish Macintyre</i>	
IPTC 15348 Technology of Dynamic Kill Drilling for Drilling in the Superficial Layer of Deepwater	3272
<i>Jiaojiao Geng, Changsuo Zhou, Qin Zhao</i>	
IPTC 15350 Overpressures in the Northern Malay Basin: Part 2 - Implications for Pore Pressure Prediction	3278
<i>Orapan Limpornpipat, Andrew Laird, Mark Tingay, Christopher K. Morley, Chaiwat Kaewla, Hamish Macintyre</i>	
IPTC 15351 Quantitative Characterization of Methane Hydrate Reservoir in the Eastern Nankai Trough, Japan	3290
<i>Satoshi Noguchi, Toshiko Furukawa, Nobutaka Oikawa, Than Tin Aung</i>	
IPTC 15352 Examples of 4D Studies from Kuwait	3296
<i>Adel El-Emam, Wael Zahran</i>	
IPTC 15366 Enhanced Horizontal Drilling in the Jasmine Field, Gulf of Thailand	3301
<i>Carlos Maeso, Rattana Watcharanatakul, Val Kienast, Chris Platt, Chris Oglesby, Dian Permanasari, Nora Yusuf, Scott Fey, Abdul Fareed, Khaled Saidi</i>	
IPTC 15375 Pinpointing Water Entries in Dead Horizontal Wells	3314
<i>Nawawi Ahmad, Mustafa Bawazir, Murat Zeybek, Shauket Malik</i>	
IPTC 15383 A New Generation Associative Polymer Extends Temperature Stability of Deepwater Drilling Fluid	3326
<i>Robert Schlemmer, Gary Phoon</i>	
IPTC 15402 Technical and Geological Review of Carbon Dioxide Geo Sequestration Along with Analysis and Study of Various Monitoring Techniques	3339
<i>Priyadharshini Saptharishi, Manisha Makwana, Pandit Deendayal</i>	

IPTC 15406 Deploying Multi-Stage Completion Technology in HPHT Applications	3356
<i>Rob Oberhofer</i>	
IPTC 15414 Optimization of Drilling and Production Operations by Application of MPD Technique on Indian Offshore Basins - A Strategic Approach	3362
<i>Sultan Alimuddin, Neeraj Kumar, Kanan Gandhi, Swapnil Satyam</i>	
IPTC 15424 Improved Prediction of ECD with Drill Pipe Rotation	3378
<i>Terry Hemphill, Krishna Ravi</i>	
IPTC 15440 Field Testing of Analytical Techniques for Flow Estimation and Flow Allocation	3384
<i>Clifford Allen</i>	
IPTC 15445 Downhole Isolation Valve Performance in Drilling and Subsequent Completion Operations	3393
<i>Dody Sasongko, Ganesha Rinku Darmawan, Surjanto Djoko Susilo, Julmar Shaun S. Toralde, Andi Eka Praselia</i>	
IPTC 15447 New Opportunities Through Reservoir Performance Reviews And Facies Based Dynamic Modelling Of A Mature Oil Field Under Waterflood	3401
<i>Madelon Nijman, Smir Paris, John Boyd-Gorst</i>	
IPTC 15448 Rock Physics Models for Integration of Petrology, Well, and Seismic Data for Triassic Reservoir De-risking	3412
<i>Stephan Gelinsky, Frank Glass, Irene Espejo</i>	
IPTC 15454 Evaluation of Steam Flooding and Cyclic Steam Stimulation (CSS) for a Fractured Carbonate Heavy Oil Reservoir	3419
<i>Seyed Mousa Mousavimirkalaei, Rahim Masoudi, Abdolrahim Ataei</i>	
IPTC 15463 Hydraulic Fracturing Stimulation Executions in Brunei	3431
<i>Norliny Talib, Amirul Sabrin Omar</i>	
IPTC 15479 Fault Fracture Detection using Borehole Constrained Gaussian Reflection Seismic Q Extraction (QRS) in La Concepcion Field, Lake Maracaibo, Venezuela	3452
<i>John D. Pigott, Ahmed Alahdal, Eshetu Gebretsadik</i>	
IPTC 15492 Prediction of Solid-Vapor-Liquid Equilibrium in Natural Gas Using ANNs	3470
<i>Muhannad T. Shuker, Firas B. Ismail</i>	
IPTC 15494 Floating LNG – Groundbreaking Innovation Becoming a Reality	3477
<i>Sander Stegenga, Barend Pek</i>	
IPTC 15502 Enhancing Post-incident Reviews Through Incident Review Board (IRB) Process	3488
<i>Leong Weng Fei</i>	
IPTC 15504 Improved Performance with New Casing while Drilling Bit Design Elements— Development and Case Studies	3494
<i>Cy Chung, Ahmad Hakam, Ming Zo Tan, Eric Twardowski, Keith Won, Scott Beattie</i>	
IPTC 15508 Evaluation of Stress Anisotropy of the Formation by Utilizing Dipole Shear Sonic Imager (DSI), Formation Micro Imager (FMI) and Density Log - A Case Study on Kanawara Field, South Cambay Basin, India	3518
<i>Subrahmanyam Pachineelam, Bharat Sastry Paluri, Anand Siva Kumar Mudigonda, N. D. J Rao</i>	
OTC 21039 Five Dangerous Trends in Hazardous Operations	3528
<i>Lambert E. Ebot</i>	
SPE 127513 Virtues of a Virtual Person Monitoring All Real Aspects of all Production Facilities all of the Time	3535
<i>Ron Cramer, Leo Berendschot</i>	
SPE 133877 Hydraulic Fracture Monitoring to Reservoir Simulation: Maximizing Value	3546
<i>C. L. Cipolla, M. J. Williams, X. Weng, M. Mack, S. Maxwell</i>	
SPE 135077 Design Considerations of Information Systems to Support Employee Development	3572
<i>M. P. Kane, F. O. Stanley, R. G. Seymour</i>	
SPE 135571 Sea Water Injection Mobile System (SWIMS) for Waterflooding Marginal Offshore Oil Reservoirs: A Case Study From Tantanwan Field, Gulf of Thailand	3590
<i>J. P. Rexilius, A. Sahni</i>	
SPE 139885 Contractor HSE Management via Effective Mitigation of Risk in the Tendering Process	3611
<i>Gamal Abou Elkhair, Adnan Al-Haidar</i>	
SPE/IADC 139932 Drilling Highly Depleted Formations with Engineered Particle Non-Aqueous Fluids (EP-NAF): South China Sea	3619
<i>Michael R. Niznik, Adela Lawrence, Sabine C. Zeilinger</i>	
SPE 142682 Drill-Stem Test with Real-Time Reservoir Data Monitoring Improves Operational Efficiency ? Case Study, Senoro-6	3628
<i>Dwi Hudya Febrianto, Fitria Dewi Rachmawati, Ahad Khan, Josmar Haddad, Alejandro Salguero</i>	
SPE 143366 Comparison of Tracer Test Result and Analysis of Connectivity Injector and Producer during Pilot Waterflood Kenali Asam Zone P/1050	3636
<i>I Putu Suarsana, Areza Badril</i>	
SPE 143439 A Fully Coupled Geomechanics and Fluid Flow Model for Well Performance Modeling in Stress-dependent Gas Reservoirs	3648
<i>Ahmed Salah El-Din, Ahmed H. Elbanbi, A. A. Abdelwaly</i>	
SPE 143483 Experimental Study of Water Shut-off by Wettability Alteration to Gas Wetness	3662
<i>Kewen Li, Haoping Zhang</i>	
SPE 144217 Development of Small Field in Malaysia Using Cost-Effective Open Hole Sandface Completion Technologies – A Case Study	3671
<i>N. Safiın, A. A. Ahmad Mahdzan, N. Z. S. Nik Khansani, N. M. Ghazali, O. Zainal Abidin, A. A. Aly Zeidan, C. Elliot, M. Zaidan Khalid, R. Regulacion, P. Domia, P. S. Lim, M. F. Abdul Rahim, P. Jackson</i>	

SPE 144481 Innovative In-situ Reservoir Stress Test Helped to Manage and Optimize Water Disposal under Fracturing Conditions in South Oman	3684
<i>S. El Msallati, K. Hammad, P. Priyandoko, Koksai Cig</i>	
SPE/IADC 144508 The Great Achievement in Well Control of one of the Iranian Wells	3695
<i>Mehran Makvandi, Khalil Shahbazi, Heaidar Bahmani</i>	
SPE/IADC 144901 New Locking Clutch Turbine Technology Successfully Frees Stuck Bit/BHA in Deep Gas Wells, Oman	3708
<i>Oddy Kapoh, Mark Van De Velden, Mohammed Al-Hajji, Said Houqani, Perry Cook, Maarten Van Den Bos, Joseph Hanna, Mohammed Al-Salti, Steven Arnott</i>	
SPE 144914 Case History: Lesson Learnt from Enhanced Oil Recovery Screening Method in Handil Field	3720
<i>Farid Hadiaman, Julfree Sianturi, Emmanuel Cassou, Win Zaw Naing</i>	
SPE 145498 Natural Gas Reserves in the Middle East and India as its Market With Promising LNG Technology for Transportation	3729
<i>Vaisakh S Unni</i>	
SPE 145888 Hydraulic Fractures Monitoring using Microseismic Techniques in Clastic Reservoir – A Pilot Test Case from India	3744
<i>T. K. Lim, S. Mishra, A. Gupta</i>	
SPE 145901 Innovative Water Shut Off Solution Combining Real Time Downhole Measurement and Analysis with Zonal Isolation Technologies for Horizontal Open Hole Producer in Ratawi Field - A Case History from Partitioned Zone	3753
<i>Bagio Utomo, Mosad Al-Harbi, Shehabuddin Razzak, Fahad S. Al-Hadyani, Saad Hamid, Tarek Shaheen, Vidal Noya, Pimteera Boonjai</i>	
SPE 146755 Evaluation and Improvement of Gravel Pack Treatments Using Advanced Downhole Pressure Analysis	3759
<i>Philip Wassouf, Samyak Jain, Greg Dannish, Alan Ramnarine</i>	
SPE 146803 Openhole Gravel Packing of Fishhook Wells with Zonal Isolation- Uphill Heel to Toe Packing	3772
<i>Sateria Sulaiman, Rene Jansen, Philippe Brassart, Manish Kumar, Joe Alexander, Raymond Tibbles, Nicholas Moses, Amirul Nordin</i>	
SPE 146845 B.A.R.T (BASeline Risk Assessment Tool): A Step Change in Traditional Risk Assessment Techniques for Process Safety and Asset Integrity Management	3787
<i>Annamaria Petrone, Luciano Scataglino, Francesco Fabi</i>	
SPE 147042 Six Sigma Approach to Meet Gas Dehydration Unit Optimization	3798
<i>Adnan E. Al-Adwani, Hammad Al-Zuwayer, Venkata Madhusudanarao Kapavarapu</i>	
SPE 147049 Brilliant Water Shut-off Application Bypassing Existing Fish: A Success Story at Angsi Field, Malaysia	3809
<i>M. Alham M. Johan, M. Izwan A. Jalil, Rohaizat Ghazalli, M. Hairi A. Razak</i>	
SPE/IADC 147856 Improvements in Cutter Technology Leads to Faster Drilling in Hard Abrasive Formations, East Texas Basin	3822
<i>Albert Gonzales, Terrell Clark, Devon Energy, Charles Douglas, Levi Mueller, Jiaqing Yu, Jibin Shi Youhe Zhang</i>	

ABSTRACTS ONLY

IPTC 14250 First Application of Gasified Fluid Drilling in Pakistan	3838
<i>Muhammad Asrar, Shahid Majeed</i>	
IPTC 14346 Exploiting the Synergies by Combining Multilateral Well Intervention Techniques with Real Time Downhole Measurements - Lessons Learned from Trilateral Horizontal Well Stimulation in the Partitioned Zone	3839
<i>Jamal Al-Rubaiyeh, Adel Attiea, Fahad S. Al-Hadyani, Ikhsan Nugraha, Pimteera Boonjai, Zafer Erkol</i>	
IPTC 14362 Evaluation of Time-Domain Controlled-Source Electromagnetic Method for Detecting Hydrocarbon Targets in East Malaysia Environment	3840
<i>M Izuljad Ahmad Fuad, Awg Amirul Zakry Awg Bujang, Hani Noorashiqin A. Majid, M. Faizal Abd Rahim, Maxwell Azuka Meju, Boshara Merghani Arshin</i>	
IPTC 14384 Growth and Demise of Neogene Central Vietnamese Carbonate Platforms: The Effect of South China Sea-Opening and Onshore Uplift	3841
<i>Michael B. Fyhn, Lars H. Nielsen, Henrik I. Petersen</i>	
IPTC 14397 Ensuring Global Offshore Workforce Safety and Competence by Integrating National Regulatory Frameworks with International Industry Standards	3842
<i>Ian Stewart Laing</i>	
IPTC 14485 Assessment of Undiscovered Conventional Oil and Gas Resources of Thailand	3843
<i>Christopher J. Schenk</i>	
IPTC 14703 The Influence of Reservoir Rock Wettability on CO₂-Foam Stability in Porous Media	3847
<i>Roosbeh Rafati, Hossein Hamidi</i>	
IPTC 14778 Dealing with Complexity of Combination Traps in the North Malay Basin	3848
<i>Pakpoom Sriyarak, Ahmad Anis, Khunamai Rungsai, Teerasak Bunpitaksakul</i>	
IPTC 14788 Improving Seismic Velocity Estimation Through Separation Of Seismic Diffractions And Specular Reflections	3849
<i>Riaz Alai, Mohd Hafizal Mad Zahir, Amar Ghaziah M. Adnan, Eric D. J. Verschuur</i>	
IPTC 14826 B-Field Reservoir Characterization and Modeling - Carbonate Excess Permeability Using Single and Dual Porosity Models	3850
<i>Michael Sun</i>	

IPTC 14831 The North Malay Basin; Analog for the Reservoir Distribution of the Triassic Rift Basins, Northeastern, Thailand	3851
<i>Teerapong Pongpisuttinan, Ahmad Anis, Piyanuch Ponthanom</i>	
IPTC 14835 Maximizing Ultimate Platform Recovery By Unlocking Unconventional Gas Reserves And Implementing A New Geologically Driven Drilling Strategy Arthit Offshore Gas Field, North Malay Basin, Gulf Of Thailand	3852
<i>Yarick Ionnikoff, Awirut Sirimongkolkitti, Totok Sudibyo, Komon Pinyo, Kasinee Suyacom, Chompunoot Kongkanoi, Kullanan Suriyo, Kannika Pukdeewuht, Anuphum Yaekhajohn</i>	
IPTC 14922 Potential Unconventional Oil and Gas Resource Accumulations, Onshore Thailand	3853
<i>Christopher J. Schenk</i>	
IPTC 14982 Rejuvenating Field Production through Horizontal Wells in Unfavourable Mobility and Strong Aquifer Environment - A Case History	3856
<i>Dong Junchang, Ahmed Abdalla Mohammed, Raj Deo Tewari, Bai Fenghan, Ismail Saeed</i>	
IPTC 15031 Investigations on Gas Trapping Phenomena for Different EOR-Water Alternate Gas Injection Methodologies	3857
<i>Jigar Chandrakantbhai Bhatia, J P Srivastava, Jitendra Shital Sangwai, Abhay Sharma</i>	
IPTC 15162 Open-Hole Completion with Swell Packer Case Study; What Parameters Can't Be Ignored during the Design Stage?	3861
<i>Chen Jiun Horng, Noridah Nordin, Nur Hazrina Kamarul Zaman, Latief Riyanto</i>	
IPTC 15283 Advanced Seismic Characterization As A Direct Input For Reservoir Modeling	3862
<i>Lorette Anquelle</i>	
IPTC 15309 Pilot Plant Test of a New Syngas Production Process for Floating GTL to Utilize Associated Gas	3863
<i>Yoshifumi Suehiro, Yoshiyuki Watanabe, Tsutomu Kawasaki, Kota Yokoyama, Koichiro Ikeda, Masataka Masuda</i>	
IPTC 15335 Detecting Hydrocarbon Reservoir through Inversion of Broadband Multicomponent CSEM Data and Joint Interpretation with Seismic Constraints	3864
<i>Mohamad Faizal Abd Rahim, Maxwell Azuka Meju, Awang Amirul Zakry Awang Bujang, M Izzuljad Ahmad Fuad, Hani Noorashiqin A Majid</i>	
IPTC 15465 Reservoir in Fractured Granite Basement (Fgb): Unconventional or Conventional?	3865
<i>Pham Huy Giao, Bui Duc Trung, Nguyen Hai Minh</i>	
IPTC 15470 Storage and Transportation of Natural Gas at Moderate Pressures using Adsorption in Porous Materials	3866
<i>Celio L. Cavalcante Jr., Rafael B. Rios, A. Eurico B. Torres, Diana C. S. Azevedo</i>	
Author Index	