

# **SPE Oil and Gas India Conference and Exhibition 2017**

Mumbai, India  
4 - 6 April 2017

Volume 1 of 2

ISBN: 978-1-5108-4202-1

**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© (2017) by Society of Petroleum Engineers  
All rights reserved.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact 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](mailto: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: 845-758-2633  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# TABLE OF CONTENTS

## VOLUME 1

### SESSION 1: RESERVOIR MANAGEMENT - 1

<b>Data Integration Helps in Identifying New Waterflood Opportunities in Western Desert, Onshore Field</b> .....	1
<i>Choudhary, Manish; Nair, Saritha; Pal, Sabysachi; Munimandha, Amuktha; Kohli, Abhinandan; Nirmohi, Samiksha; Gupta, Shyam; Jain, Sid</i>	
<b>Field Trial of Surfactant Stimulation in Low PI and Intermittently Flowing PCP Wells: A Successful Case Study of Bhagyam Field</b> .....	16
<i>Poptani, R. V.; Mishra, L.; Gupta, A. K.; Saurav, S.; Singh, C. K.; Agrawal, N.; Patel, N.; Hammond, P.</i>	
<b>Sidetracking of Peripheral Injector for Tapping Bypassed Oil: Case Study from a Matured Carbonate Reservoir of Mumbai High Field</b> .....	28
<i>Ray, Suhrita; Bagchi, Prodip; Medhekar, S. D.</i>	
<b>Uncertainty Mitigation Using Data Acquisition in Volcanic Reservoirs</b> .....	37
<i>Gupta, A. K.; Sabharwal, V.; Kumar, R.; Mund, B.; Beohar, A.; Saurav, S.; Shankar, P.; Tiwari, S.</i>	
<b>Comparison Study of Asphaltene Precipitation Models Using UTCOMP, CMG/GEM and ECLIPSE Simulators</b> .....	52
<i>Al-Qasim, Abdulaziz; AlDawsari, Mudhish A</i>	
<b>Effect of Varying Permeability on Inflow Performance Curve of Gas Reservoirs</b> .....	68
<i>Kommineni, M.; Kavanamani, R.; Kurupati, A.; Cherian, T. T.; Aborig, A. M.; Hossain, M.; Huque, M. M.; Miah, M. I.</i>	

### SESSION 2: DRILLING - 1

<b>Revolutionary Drilling Performance in Challenging HPHT and Basaltic Environment of Kutch &amp; Saurashtra Exploration Field</b> .....	81
<i>Kundan, A.; Desai, A.; Bahuguna, S.; Talreja, R.; Nakhle, A.; Zayyan, Md.; Narayanan, S.; Tewari, P.; Purohit, S.; Basu, J.</i>	
<b>A More Holistic Approach to Determine Economics of Using Synthetic Oil Based Mud over Water Based Mud System in Onshore Development Drilling</b> .....	97
<i>Sinha, Pankaj; Kumar, Varun; Prabhakaran, Tushar; Katre, Anurag; Patel, Maulik; Doodraj, Sunil</i>	
<b>A Study of Drilling Jar Utilization and Effectiveness in the Kingdom of Saudi Arabia</b> .....	105
<i>Oliveira, V. C. C.; Martinez, M. A. R.; Zahrani, B. S.; Abouelnaaj, K. K.</i>	
<b>Prospect Level Normalization of Offset Pore Pressure Measurements: Analysis of Approaches and their Association with Regional Geology</b> .....	112
<i>Purkayastha, Anjanava D.; Nair, Pratap V.</i>	
<b>Enhanced Mechanical Integrity Characterization of Oilwell Annular Sealants Under In-Situ Downhole Conditions: A Path to Optimized Wellbore Economics</b> .....	130
<i>Jimenez, Walmy Cuello; Pang, Xueyu; Bengé, Margaret; Darbe, Robert; Meadows, David L.</i>	

### SESSION 3: EOR/IOR - 1

<b>Use of Side Wall Core as a Tool for In-Situ Combustion Monitoring</b> .....	146
<i>Pareek, Ramesh C.; Velmurugan, Guru Prasanna; Goyal, Mayank</i>	
<b>Studies on a Hybrid of Movable Gel and ASP Flooding Further EOR for the Reservoir after Polymer Flooding</b> .....	153
<i>Zhu, Youyi; Fan, Jian; Tian, Jing</i>	
<b>Successful Polymer Selection for CEOR: Brine Hardness and Mechanical Degradation Considerations</b> .....	165
<i>Divers, Thomas; Gaillard, Nicolas; Bataille, Stéphane; Thomas, Antoine; Favéro, Cédrick</i>	
<b>Economic Design of Surfactant-Polymer Flooding Under Low Oil Price</b> .....	179
<i>Zhou, Kang; Hou, Jian; Ren, Xiaoyun; Yu, Bo</i>	

## **SESSION 4: EXPLORATION & DEVELOPMENT**

<b>Seismic Curvature Attributes for Subtle Fault Detection in Tight Volcanic Reservoirs from Barmer Basin, India</b> .....	193
<i>Somasundaram, Sreedurga; Bhat, Sudeep; Das, Amlan; Sharda, Ruchika; Mund, Bineet; Beohar, Abhudai; Shankar, Pranay</i>	
<b>Reducing the Appraisal Uncertainty with Advanced Wireline Formation Testing Technology: A Case Study from the Gulf of Thailand</b> .....	206
<i>Lozet, A.; Platt, C. J.; Chanthanaphalin, U.; Gok, I.M.; Ridho, M.; Doogue, J.; Khunaworawet, T.; Watana, K.; Daungkaew, S.; Duangprasert, T.; Lersuwankij, T.; Paramatikul, R.; Shi, Z.</i>	
<b>Comprehensive Field Development Design for a Tight Gas Chalk-Reservoir in North Sea: A Capstone Design Project</b> .....	218
<i>Ansari, Arsalan Arshad; Ghosh, Bisweswar; Alklich, Mohamed Yousef; Najy, Anas K.; Nagah, Adnan; Shafik, Mohamed Mohsen</i>	

## **SESSION 5: RESERVOIR MANAGEMENT - 2**

<b>Pressure Transient Analyses for Unfavorable Mobility Ratio Flooding Operations</b> .....	233
<i>Beliveau, Dennis; Chapman, Thomas; Merrill, Robert</i>	
<b>Pressure Build up Study with Echo Meter Data - A Case Study of NE Field</b> .....	252
<i>Kumar, Vineet; Vema, Saurabh Kumar; Bhatnagar, Anil Kumar</i>	
<b>Effect of Reservoir Heterogeneities and Model Uncertainties on Prediction Versus Actual Field Behavior- A Case Study</b> .....	260
<i>Kumar, Rajesh; Shankar, Vivek; Batra, Surseh K.; Kumar, Atul</i>	

## **SESSION 6: DRILLING - 2**

<b>Benefits of Cutting Pipe under Compression in Deepwater Rig Operations</b> .....	268
<i>Ahmad, Abdo; Garg, Ashootosh; Sankar, Maniram; Omonze, Dickson; Agrawal, Vivek; Mudgal, Abhay; Patowary, Markandeya; Nayak, Jyoti Prakash; Pinto, Thomas</i>	
<b>Failures and Remedial Measures for Cementing Vertical Shale Gas Wells in India – Case Histories</b> .....	276
<i>Lal, Kishori; Rastogi, Ravi; Singh, Parvinder; Meher, R K; Sinha, M P</i>	
<b>Development of Inhibitive Water Based Drilling Fluid System with Synthesized Graft Copolymer for Reactive Indian Shale Formation</b> .....	294
<i>Kumar, Saket; Jain, Rajat; Chaudhary, Pulkit; Mahto, Vikas</i>	
<b>Stress Modelling and Design of Elastic Cement System to Withstand Well-Bore Pressure During Hydro-Fracturing and Casing Integrity Testing</b> .....	303
<i>Singh, Parvinder; Sinha, M. P.; Lal, Kishori; Malhotra, S. K.; Kumar, Pramod</i>	
<b>Conical Diamond Element Technology Delivers Step Change in Drilling Performance: Wassana Field, Gulf of Thailand</b> .....	315
<i>Radhakrishnan, Venkataramanan; Bujnoch, John; Meteerawat, A.; Wannaduriyapan, P.; Abbasgholipour, Ali; Onkvisit, Sirikanya</i>	

## **SESSION 7: COMPLETION - 1**

<b>Successful Implementation of Limited Entry Technique for Multistage Fracturing Optimization in a Deep Tight Gas Volcanic Reservoir of Western India: Case Study</b> .....	326
<i>Goyal, Rajat; Tiwari, Shobhit; Tibbles, Raymond Joseph; Anand, Saurabh; Ranjan, Vishal; Sidharth, Punj; Pathak, Shashank; Sharma, Anurag; Vijay, Utkash; Manish, Kumar</i>	
<b>The First Application of Specialty Sand Screens in Combination with Fully Integrated ESP Technology in the Nong Yao Field, Gulf of Thailand</b> .....	340
<i>Chigbo, I. T.; Opdal, S. T.; Tarasombut, P.; Gordon, G.; Rekijtisirikul, N.; Duangprasert, T.; Ridho, M.; Roumi, M.; Woiceshyn, G. E.; Wells, D. G.</i>	
<b>Development of Non-Damaging Solid Free Polymer Pill for Controlling Fluid Loss in Mumbai Offshore</b> .....	348
<i>Mahato, P K; Raj, Prithvi; Bahuguna, V K</i>	
<b>Application of Closed Fracture Acidizing for Stimulation of Tight Carbonate Reservoir in Mumbai Offshore</b> .....	357
<i>Sarma, Dilip Kumar; Pal, Tej; Kumar, Dileep; Lahiri, Gopal; Manchalwar, V V</i>	

<b>Multistage Up-Dip Well (&gt;94 Deg) Fracturing using Plug &amp; Perf Technology through Coiled Tubing - A Case Study</b> .....	369
<i>Gupta, Anand; Gupta, Vaibhav; Okeke, Ugochukwu; Jerath, Shweta</i>	

## **SESSION 8: RESERVOIR CHARACTERISATION - 1**

<b>Static Modeling of Deepwater Syn-Rift Reservoir Using Trend Analysis and Conceptual Geological Model in Absence of Effective Seismic Attributes: A Case Study from Mesozoic Reservoir, Offshore East Coast of India</b> .....	391
<i>Chakraborty, Suvajit; Negi, Satyapal; Kumar, Alok; Pandey, Nitesh</i>	
<b>Fractured Basement Reservoir Characterization in Barmer Basin</b> .....	402
<i>Singh, Nepal</i>	
<b>Delineating Complex Channel Sands Distribution Alongside Volcanic Flows with Spectral Decomposition Attribute Analysis: Saraswati Field, Barmer Basin</b> .....	409
<i>Rao Kola, Venkateswara; Wahengbam, Dhanachandra; Bhatnagar, Anil Kumar</i>	
<b>Non-Steady Well-Testing Interpretation Model and Analytical Solution for Circularly Partially Penetrating Wells</b> .....	419
<i>Libing, Fu; Zifei, Fan; Qingying, Hou; Jun, Ni; Lun, Zhao</i>	
<b>Fluid Type Identification in Carbonate Reservoir Using Advanced Statistical Analysis</b> .....	431
<i>Yu, Hongyan; Wang, Zhenliang; Rezaee, Reza; Liu, Xi; Zhang, Yihuai; Imokhe, Omolegho</i>	

## **SESSION 9: UNCONVENTIONAL: DRILLING, COMPLETION AND PRODUCTION**

<b>Investigation Into the Economic Impact and Recovery Effect of Various Completion Timing Strategies in Unconventional Wells</b> .....	440
<i>Karan, Dhuldhoya; Stephen, Holtz</i>	
<b>Unconventional Hydrocarbons: Gas Hydrates - Drilling Challenges and Suitable Technology</b> .....	455
<i>Motghare, Prashant D; Musale, Amol</i>	
<b>Ultra-Light Weight Proppant and Pumping Design Lead to Greater Conductive Fracture Area in Unconventional Reservoirs</b> .....	469
<i>Bestaoui-Spurr, Naima; Hudson, Harold</i>	
<b>Optimization of Fracturing Technique for Successful Exploitation of Tight Gas Reservoirs of Mandapeta Field</b> .....	478
<i>Medavarapu, Kishorekumar; Das, S.; Ch, S.; Nainwal, S. P.</i>	
<b>Novel Idea for Optimization of a Progressive Cavity Pump PCP System at Different Stages of Coal Bed Methane CBM Well Life</b> .....	486
<i>Vora, Jinen; Singh, Rahul; Saxena, Shivam</i>	
<b>Exploiting the Thick Tight Gas Sandstone Formation of Periyakudi Field of India through Fracturing Stimulation - A Challenging Experience</b> .....	500
<i>Mahawar, Dheeraj; Kumar, Rajesh; Das, Santanu; Rajendra, K; Nainwal, S P</i>	
<b>Lateral Wellbore Rock Characterization and Hydraulic Fracture Optimization Utilizing Drilling Cuttings and Mud Log in Cleveland Sand, A Case Study</b> .....	511
<i>Stolyarov, Sergey; Gadzhimirzaev, David; Sadykhov, Said; Ackley, Benjamin; Lipp, Casey</i>	

## **SESSION 10: EOR/IOR - 2**

<b>Next-Generation Displacement Fluids for Enhanced Oil Recovery</b> .....	523
<i>Yegin, Cengiz; Singh, B. P.; Zhang, Ming; Biopharm, Frontida; Balaji, Karthik; Suhag, Anuj; Ranjith, Rahul; Peksaglam, Zumra; Wijaya, Zein; Putra, Dike; Anggraini, Henny; Temizel, Cenk</i>	
<b>Hybrid EOR Technology: Carbonated Water-Smart Water Flood Improved Recovery in Oil Wet Carbonate Formation: Part-II</b> .....	552
<i>Kilybay, Alibi; Ghosh, Bisweswar; Thomas, Nithin Chacko; Sulemana, Nuhu Turosung</i>	
<b>Successful Pilot Implementation of ASP Flooding through CEOR/IOR Application – A Case Study</b> .....	570
<i>Singh, B. P.; Parulkar, S.; Kumar, Aditya</i>	

## VOLUME 2

<b>Isolation and Characterization of Biopolymer Producing Omani Aureobasidium Pullulans Strains and Its Potential Applications in Microbial Enhanced Oil Recovery</b> .....	583
<i>Elshafie, A.; Joshi, S. J.; Al-Wahaibi, Y. M.; Al-Bahry, S. N.; Al-Bemani, A. S.; Al-Hashmi, A.; Al-Mandhari, M. S.</i>	
<b>Mechanistic Study of Surfactant/Polymer Adsorption and Its Effect on Surface Morphology and Wettability</b> .....	594
<i>Al-Wahaibi, Yahya; Al-Hashmi, Abdul-Aziz; Joshi, Sanket; Mosavat, Nader; Rudyk, Svetlana; Al-Khamisi, Sami; Al-Kharusi, Thuraya; Al-Sulaimani, Hanaa</i>	
<b>Technical and Economic Evaluation of EOR Technology in Low-Oil-Price Period a New Polymerflooding Case Study From China</b> .....	610
<i>Wu, Xingcai; Zhang, Jichang; Liang, Wuquan; Xu, Hanbing; Wang, Qiang; Xiong, Chunming; Ren, Tiejing; Zhang, Liang; Bai, Baojun; Ye, Yinzhu; Tian, Xiaoyan</i>	

### **SESSION 11: INTEGRATED PROJECT MANAGEMENT**

<b>Raageshwari Deep Gas Hydro-Fracturing Campaign, Accelerated Project Delivery - An Example of Robust Integrated Project Management</b> .....	621
<i>Shrivastava, Pranay; Sharma, Vedant; Anand, Saurabh; Otubaga, Ademola; Trivedi, Ranjan; Muda, Mazlan; Parasher, Arunabh; Tiwari, Shobhit; Aihevba, Leste</i>	
<b>Design and Implementation of the Well Delivery Project Gate System</b> .....	635
<i>Al-Salem, Mohammad; Al-Shehab, Nawaf; Decena, Jose</i>	
<b>Energy Efficiency and Cost Optimization Assessments in Mangala Processing Terminal</b> .....	646
<i>Kukadiya, K. N.; Gajendran, B.</i>	

### **SESSION 12: ASSET INTEGRITY MANAGEMENT**

<b>Safety Integrity Analysis of Topside Piping and Vessels Installed on Offshore Platform</b> .....	656
<i>Thakur, Subodh L.</i>	
<b>Enabling New Field Development Projects for a Digital Future</b> .....	667
<i>Praveen Sam, Samraj; Airani, Avinash</i>	
<b>Mitigation of Work Control Challenges at Well Sites – Lessons from CBM Project</b> .....	678
<i>Pandey, Baldev; Tomar, Satendra</i>	
<b>Delivering Efficiencies to Well Intervention Management Planning, Tracking and MIS by Automation</b> .....	685
<i>Upadhyaya, Akhilesh; Gosain, Sonali; Dhiman, Mansi; Kothiyal, Manish Dutt; Jetley, Shailendra</i>	
<b>Oil Spill Cleanup Using Aerographene</b> .....	693
<i>Wadhvani, Rajat</i>	

### **SESSION 13: OIL AND GAS PRODUCTION AND OPTIMISATION**

<b>Transition from Gas Lift to Electric Submersible Pump in Wells with High Gas Volume Fraction - Avenues for Profitability in Challenging Markets - A Novel Case Study of an Indian Offshore Field</b> .....	702
<i>Goel, Prasant; Kumar, A; Duara, H; Mandal, T K; Rao, K R; Manchalwar, V V</i>	
<b>Optimizing Cost and Effectiveness of Well Interventions: An Holistic Approach</b> .....	714
<i>Gosain, Sonali; Dhiman, Mansi; Kothiyal, Manish Dutt; Upadhyaya, Akhilesh; Jetley, Shailendra; Jain, Sachin; Jain, Akanksha, Cairn India Limited Patel, Nilay; Hammond, Paul</i>	
<b>A Case Study on Production Enhancement Opportunity in an Existing Gas Processing Complex</b> .....	731
<i>Sukanandan, J N; Sharmila, G.; Das, Barnali; Pawar, A S; Singhal, C P</i>	
<b>Best Out of Waste - Waste Water Management for Sustainance of Well Intervention Activities</b> .....	739
<i>Gupta, Abhishek; Sharma, Vedant; Parasher, Arunabh; Thummar, Dinesh; Satyarthi, Rajesh S., Cairn India Rao, Eshwar; Tiwari, Shobhit</i>	
<b>HT Fracturing Fluid in Stimulating Saudi HTHP Gas Wells: Lab Results and Field Cases</b> .....	751
<i>Aldawsari, M. A.; Al-Sagr, A. M.; Al-Driveesh, S. M.; Al-Shammari, N. S.; Altammar, A. H.; Atayev, N.; Melo, A.</i>	

## **SESSION 14: UNCONVENTIONAL RESERVOIR**

<b>Characterization of Diagenetic Phase Transformations in Lacustrine Biogenic Silica Rich Rocks Using Porosity-Depth Trends in Barmer Basin, India.....</b>	763
<i>Samal, Saphalata; Pal, Arindam; Guha, Rupdip</i>	
<b>Unravelling Potential of a Volcanic Reservoir Through Enhanced Facies Understanding - A Case Study from Barmer Basin, India .....</b>	780
<i>Mund, Bineet; Das, Amlan; Sharda, Ruchika; Bhat, Sudeep; Kumar, Ritesh; Gupta, Abhishek Kumar; Shankar, Pranay</i>	
<b>Frac Characterization of Indian Cambay Shale Through Hydraulic Fracturing in First Cambay Basin Shale Well .....</b>	793
<i>Jha, Ajay Kumar; Mahawar, Dheeraj; Kumar, Rajesh; Das, Santanu; Rajendra, KWS</i>	
<b>Characterisation and Modelling of Fractured Basement Reservoirs: A Case Study .....</b>	808
<i>Nautiyal, D. K.; Goswami, Sandeep; Dutt, Ankit</i>	
<b>A Workflow to Model Performance of Low Permeability Reservoirs for Devising Most Optimal Development Strategy Using Rate Transient Analysis and Single Well Modeling.....</b>	823
<i>Sharma, Shivam; Batshas, Siddhanta; Joshi, Sameer; Reddy, Vinil; Chhabra, Sameer; Sastry, Bharath; Subrahmanyam, P</i>	
<b>Integrating Pressure Transient and Rate Transient Analysis for EUR Estimation in Tight Gas Volcanic Reservoirs .....</b>	841
<i>Beohar, A.; Verma, S. K.; Sabharwal, V.; Kumar, R.; Shankar, P.; Gupta, A. K.</i>	
<b>A Practical Solution to Overcome Challenges in Unconventional Reservoir Simulation and History Matching Using Integrated Petrophysical and Facies Modeling Approach .....</b>	858
<i>Saikia, Kalyan; Baruah, Chinmay</i>	

## **SESSION 15: DRILLING - 3**

<b>Application of Heavy Weight Cement-Resin Blend System to Prevent CCA Pressure in Saudi Arabia Deep Gas Fields.....</b>	869
<i>Yami, Abdullah; Buwaidi, Husain; Al-Herz, Ali; Mukherjee, Tushar S.; Bedford, David; Viso, Ramon; Hugentobler, Kory</i>	
<b>Successful Implementation of Improved Rheological Hierarchy of Mud - Spacer - Cement for Effective Zonal Isolation - A Case Study .....</b>	879
<i>Singh, Parvinder; Lal, Kishori; Rastogi, Ravi; Joshi, C. S.; Sinha, M P</i>	
<b>Case Study: Drilling the Longest and Fastest Surface Hole Section in United Arab Emirates U.A.E .....</b>	890
<i>Ansari, Arsalan; Sowaidi, Saif Al; Yoshimoto, Kazuhito</i>	
<b>Drilling Operation Improvement in Overpressure Zone with Managed Pressure Drilling Technology in LFN Field .....</b>	895
<i>Fajar, Rizki Arie; Irawan, Cepi; Hasudungan, Boyke</i>	

## **SESSION 16: MATURE FIELDS MANAGEMENT**

<b>Radial Jet Drilling in Mature Fields of Oil India Limited- An Experimental Approach .....</b>	913
<i>Jain, Deepak; Maut, Pratha Protim; Saharia, Pranjal; Dutta, Ranjit; Yomdo, Saloma; Hatchell, Ian; Mukherjee, Aditya</i>	
<b>Effective Waterflood Management in Complex Carbonate Reservoir of Mumbai High Field .....</b>	926
<i>Ravi, N. T.; Muralidharan, R.; Maurya, C. R.; Ram, B.; Muralidharan, K.; Medhekar, S. D.</i>	
<b>Holistic Approach in Managing Challenges of Mature Offshore Carbonate Gas Fields with High CO<sub>2</sub> and H<sub>2</sub>S Content in Sarawak Gas Operations, MALAYSIA .....</b>	947
<i>Abdul Aziz, M. F.; Mithani, A. H.</i>	
<b>Effective Use of Chemicals to Increase Production in a Mature Asset.....</b>	953
<i>Fartiyal, Prashant; Tiwari, Amitosh; Malik, Ankit; Manickavasagam, Chandran; Sharma, Neel Mani; Lele, Sarang</i>	
<b>Unconventional Installation of Insert PCP .....</b>	979
<i>Kumar, Prakash; Bohra, Avinash; Tiwari, Shobhit</i>	
<b>A Successful Water Shut Off Treatment in Gas Well of Bassein Field by Polymeric Gel System .....</b>	987
<i>Mattey, Padmaja; Varshney, Meenu; Daksh, Pd. Vikrant; Kumar, Aditya</i>	
<b>Intervention and Abandonment Operations Utilising a Rigless Well Servicing Unit: Case Studies.....</b>	997
<i>Canny, Steven A</i>	

## **SESSION 17: COMPLETION - 2**

<b>Getting Past the Deepest Barrier Using Plasma Based Punctures: A Case Study on the Mature Panna Field, Western Offshore, India</b> .....	1013
<i>Abbasi, Shariq; Tyagi, Chirag; Chakrabarty, Toushar</i>	
<b>A New Approach for Productivity Enhancement in Mature Sand Prone Fields Having Nearby Water Contact Through Slick Water FracPack: A Case Study</b> .....	1024
<i>Mishra, Nirmal Kumar; Singh, Amar; Rakundal, Snehal; Rajendra, KWS; Nainwal, S. P.</i>	
<b>Propane Fracturing: A Waterless Approach, Safety Considerations and Its Prospects in India</b> .....	1036
<i>Kumar, Nitesh; Rajput, Saunil; Gautham, K. G.</i>	
<b>Successful Matrix Acidization Using Organic Acid System for Sandstone Reservoir of Western Onshore Fields of India: A Case Study</b> .....	1057
<i>Shah, Sohil; Singh, S. K.; Bahuguna, V. K.; Rajendra, K. W.</i>	
<b>Maximizing Profits in a Tight Gas Volcanic Reservoir with a SIMOPS Multistage Fracturing Campaign</b> .....	1066
<i>Sidharth, Punj; Tiwari, Shobhit; Anand, Saurabh; Goyal, Rajat; Agarwal, Aman; Sharma, Amit; Singh, Mukund; Aggarwal, Vishal</i>	
<b>Mitigation of Mineral Scale Deposition in Well-Bore and Flow Lines with Eco Friendly and Less Aggressive Chemical</b> .....	1077
<i>Siddiqui, M. A. A.; Al-Othman, M. R.; Al-Houti, N. B.; Aloun, S.; Al-Matar, B. S.; Stanitzek, T.; Wolf, C. de; Iwenjora, G. N.</i>	

## **SESSION 18: RESERVOIR CHARACTERISATION - 2**

<b>Geomechanical Model and its Role in Hydraulic Fracturing of a Volcanic Reservoir, Barmer Basin, India</b> .....	1086
<i>Mund, Bineet; Sharda, Ruchika; Das, Amlan; Somasundaram, Sreedurga; Bhat, Sudeep; Sabharwal, Varad; Gupta, Abhishek Kumar; Shankar, Pranay</i>	
<b>Production Enhancement Driven by Geomechanics: Successful Well Placement and Fracturing in a Tight Unconventional Clastic Reservoir, Case History from India</b> .....	1101
<i>Das, Santanu; Gupta, Anand; Saha, Sankhajit; Shinde, Ashok; Perumalla, Satya; Chakrabarti, Prajit; Deshpande, C.</i>	
<b>Seismically Constraining the Static and Dynamic Models of a Complex Fluvial System, Mangala Field, Rajasthan</b> .....	1113
<i>Pahwa, N.; Malkani, A.; Sarkar, S.; Singh, R.</i>	
<b>Optimizing Drilling and Completions in Overpressured Malleswaram Field by Integrating Geomechanics with Advance Acoustics Measurements</b> .....	1124
<i>Reddy, S. S.; Anjaneyulu, J. V.; Lal, Abhay Kumar; Rao, E. J.; Ramakrishna, C. H.; Talreja, Rahul; Bahuguna, Somesh; Zacharia, Joseph; Chatterjee, Chandreyi; Basu, Jayanta</i>	
<b>Temperature Correction in NMR Logging While Drilling</b> .....	1137
<i>Coman, Radu; Tietjen, Holger</i>	
<b>Author Index</b>	