

IADC/SPE Managed Pressure Drilling and Underbalanced Operations Conference and Exhibition 2009

“Drilling in India: Challenges and Opportunities”

**San Antonio, Texas
12-13 February 2009**

ISBN: 978-1-60560-955-3

Copyright © 2009 by the Society of Petroleum Engineers

All rights reserved.

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

TABLE OF CONTENTS

| | |
|---|-----|
| First Application of Concentric Nitrogen Injection Technique for a Managed Pressure Drilling Depleted Well in Southern Mexico | 1 |
| <i>A. Urbietta, C. Perez Tellez, C. Lupo, J. M. Castellanos, O. Ramirez, G. Puerto, J. Bedoya</i> | |
| Successful Application of MPD Technique in a HP/HT Well Focused on Performance Drilling in Southern Mexico Deep Fractured Carbonates Reservoirs | 18 |
| <i>C. P. Tellez, H. Duno, O. Casanova, W. Colombine, C. Lupo, J. R. Palacios, L. Medina</i> | |
| A New Chapter in MPD: Subsea Pumping | 30 |
| <i>Andy Hinton</i> | |
| Pressurized Mud Cap Drilling in Qatar's North Field | 36 |
| <i>Michael R. Niznik, William C. Elks Jr., Sabine C. Zeilinger</i> | |
| Real-Time Monitoring of Downhole ECDs for Parasite Aeration Using a Simple Spreadsheet Calculation | 47 |
| <i>Paul D. Scott</i> | |
| Hydraulic Optimization of Aerated Mud Drilling for Maximum Drilling Rate | 55 |
| <i>H. Andersen, A. Vigrestad</i> | |
| Key Parameters in Foam Drilling Operations | 70 |
| <i>Amir Paknejad, Jerome Schubert, Mahmood Amani</i> | |
| Successful Application of Automated Choke MPD System to Prevent Salt Water Kicks While Drilling in a High-Pressure Tertiary Salt Diapir With OBM in Southern Mexico | 87 |
| <i>J. Hernandez, C. Perez Tellez, C. Lupo, D. Scarcelli, N. Salinas, H. Bedino, F. Gallo, O. SehSah</i> | |
| Predicting the Production Capacity During Underbalanced-Drilling Operations in Vietnam | 101 |
| <i>C. Nguyen, J. M. Somerville, B. G. D. Smart</i> | |
| Evaluation of Well Productivity Loss Due to Formation Damage Caused by Spontaneous Imbibition in Underbalanced Drilling | 115 |
| <i>Alireza Naziri Khansari</i> | |
| Microflux Control and E-CD Continuous Circulation Valves Allow Operator to Reach HPHT Reservoirs for the First Time | 125 |
| <i>Angelo Calderoni, Giorgio Girola, Michele Maestrami, Helio Santos, Calvin Holt</i> | |
| Coiled Tubing MPD for Tight Gas Field Re-Entry Work | 134 |
| <i>Earl Dietrich, Stewart Denton, Javier Cadena, Richard Ortiz, Mike Ohanian, Baker Hughes</i> | |
| Choice of Hydraulics Flow Model: A Step Towards a Successful High-Pressure MPD Operation in Offshore India | 143 |
| <i>Shaikh Abdul Mujeer, Graham Robert Boyce, Paul Davis</i> | |
| Application of UBD Technology to Maximize Recovery From Horizontal Wells in Naturally Fractured Carbonate Reservoirs | 152 |
| <i>Siroos Salimi, Alireza Naziri, Ali Ghalambor, Johan Tronvoll</i> | |
| MPD: Beyond Narrow Pressure Windows | 171 |
| <i>Sagar Nauduri, George H. Medley, Jerome J. Schubert</i> | |
| Managed-Pressure Drilling: What It Is and What It Is Not | 178 |
| <i>Kenneth P. Malloy, C. Rick Stone, George H. Medley Jr., Don Hannegan, Oliver Coker, Don Reitsma, Helio Santos, Joseph Kinder, Johan Eck-Olsen, John McCaskill, James May, Kenneth Smith, Paul Sonneman</i> | |

Author Index