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

# TABLE OF CONTENTS

First Application of Concentric Nitrogen Injection Technique for a Managed Pressure Drilling Depleted Well in Southern Mexico ................................................................. 1
A. Urbieta, C. Perez Tellez, C. Lupo, J. M. Castellanos, O. Ramirez, G. Puerto, J. Bedoya

Successful Application of MPD Technique in a HP/HT Well Focused on Performance Drilling in Southern Mexico Deep Fractured Carbonates Reservoirs .................................................. 18

A New Chapter in MPD: Subsea Pumping ............................................................................. 30
Andy Hinton

Pressurized Mud Cap Drilling in Qatar's North Field ............................................................ 36
Michael R. Niznik, William C. Elks Jr., Sabine C. Zeilinger

Real-Time Monitoring of Downhole ECDs for Parasite Aeration Using a Simple Spreadsheet Calculation ........................................................................................................ 47
Paul D. Scott

Hydraulic Optimization of Aerated Mud Drilling for Maximum Drilling Rate ......................... 55
H. Andersen, A. Vigrestad

Key Parameters in Foam Drilling Operations ........................................................................ 70
Amir Paknejad, Jerome Schubert, Mahmood Amani

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
J. Hernandez, C. Perez Tellez, C. Lupo, D. Scarcelli, N. Salinas, H. Bedino, F. Gallo, O. SehSah

Predicting the Production Capacity During Underbalanced-Drilling Operations in Vietnam ................................................................................................................................. 101
C. Nguyen, J. M. Somerville, B. G. D. Smart

Evaluation of Well Productivity Loss Due to Formation Damage Caused by Spontaneous Imbibition in Underbalanced Drilling ................................................................. 115
Alireza Naziri Khansari

Microflux Control and E-CD Continuous Circulation Valves Allow Operator to Reach HPHT Reservoirs for the First Time ........................................................................................................ 125
Angelo Calderoni, Giorgio Girola, Michele Maestrami, Hélio Santos, Calvin Holt

Coiled Tubing MPD for Tight Gas Field Re-Entry Work ........................................................ 134
Earl Dietrich, Stewart Denton, Javier Cadena, Richard Ortiz, Mike Ohanian, Baker Hughes

Choice of Hydraulics Flow Model: A Step Towards a Successful High-Pressure MPD Operation in Offshore India ......................................................................................... 143
Shaikh Abdul Majeer, Graham Robert Boyce, Paul Davis

Application of UBD Technology to Maximize Recovery From Horizontal Wells in Naturally Fractured Carbonate Reservoirs ................................................................. 152
Siroos Salimi, Alireza Naziri, Ali Ghalambor, Johan Tronvoll

MPD: Beyond Narrow Pressure Windows ............................................................................. 171
Sagar Nauduri, George H. Medley, Jerome J. Schubert

Managed-Pressure Drilling: What It Is and What It Is Not ................................................... 178
Kenneth P. Malloy, C. Rick Stone, George H. Medley Jr., Don Hannegan, Oliver Coker, Don Reitsma, Hélio Santos, Joseph Kinder, Johan Eck-Olsen, John McCaskill, James May, Kenneth Smith, Paul Sonneman

Author Index