

Coiled Tubing and Well Intervention Conference and Exhibition 2010

**The Woodlands, Texas, USA
23-24 March 2010**

ISBN: 978-1-61738-320-5

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© (2010) by the Society of Petroleum Engineers
All rights reserved.

Printed by Curran Associates, Inc. (2010)

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

SPE 124966 New Slickline Smart-Release Tool Mitigates Wire-Recovery Issues in Extreme Well Conditions	1
<i>Jack Clemens, Darrell Moore, John Schram, Jerry Foster, Johnnie Garrett</i>	
IADC/SPE 128926 Improved Drilling Performance and Economics Using Hybrid Coiled Tubing Unit on the Chittim Ranch, West Texas	11
<i>B. Littleton, S. Nicholson, C. Blount</i>	
SPE 129507 Fishing Coiled Tubing From a Live Gas-Condensate Well With Coiled Tubing While Under Production	21
<i>B. I. Kang, B. S. Murugappan, O. K. Kwon, G. J. Sinn, I. Foster, L. Robinson, J. B. Elliott, R. Hampson, B. L. McKinnon</i>	
SPE 129864 Innovative Emergency Coiled-Tubing Disconnect System for Tender Barge Operations	37
<i>J. A. Noguera, R. Hampson, Q-B. Tran</i>	
SPE 130159 Efficiency in Cement Jobs for Fresh Water Formations Isolation During Plug and Abandonment in Canadon Seco Field, South Argentina	44
<i>H. J. Graterol</i>	
SPE 130279 Sour Serviceability of Higher-Strength Coiled Tubing: Final Results	52
<i>T. Padron</i>	
SPE 130342 Stuck Coiled-Tubing Recovery Utilizing Surface Equipment and Methods	76
<i>O. Gonzalez, B. Bernat</i>	
SPE 130365 Changing the Game of Fluid Placement: Intelligent-Well Intervention on a Trilateral Horizontal Well	83
<i>J. R. G. Jacobsen, W. Kharrat, J. V. Noya</i>	
SPE 130395 Case Study: Shallow Surface Casing Corrosion Mitigation Evaluation	93
<i>R. G. Blakney, M. J. Loveland, P. Klein</i>	
SPE 130412 Successful Water Shut-Off Through Innovative Data Acquisition and Phased Planning	100
<i>Eivind H. Samuelsen, Rene A. Frederiksen, Jesper Noer, Sven K. Hartvig, Are Haugan</i>	
SPE 130427 Development and Qualification of a New Wireless Controlled Retrofit Safety Valve: An Alternative to Well Workover That Enhances Well Safety and Maximizes Production Uptime	115
<i>B. P. Champion, G. Gandini, A. Gabbiani</i>	
SPE 130428 Sealing Casing Leaks Through the Remote Deployment of Discrete Particles	128
<i>M. J. Loveland, P. Klein, N. J. Ryan, C. Bowie</i>	
SPE 130478 Successful Perforating Campaign in Extended-Reach Wells Offshore Malaysia	139
<i>J. V. Noya, R. Wibsono, I. P. E. Parta, C. Connell, M. Oettli, Z. Erkol</i>	
SPE 130511 Advanced Drillable Aluminum Plug Technology Solves Operational Concerns: Pinedale Wyoming	151
<i>Ryan Lewis, David Hodges, Robert Crawford, Ankur Desai, Alex Winn</i>	
SPE 130512 First Successful Selective Stimulation With Coiled Tubing, Hydrajetting Tool, and New Isolation Sleeve in an Openhole Dual-Lateral Well Completed in a Saudi Arabia Carbonate Formation: A Case History	160
<i>F. O. Garzon, C. A. Franco, N. H. Ginest, L. Sierra, J. B. Surjaatmadja, G. Izquierdo</i>	
SPE 130520 Unique Straddle Design for Placement Inside Damaged Downhole Safety Valve Nipple Seal Area	184
<i>T. H. Liland, A. Lund, T. Johanson, E. Hiorth, B. Bill</i>	
SPE 130522 Bringing Wireline and Coiled Tubing to New Frontiers on a Light Well Intervention Unit	198
<i>C. Drange</i>	
SPE 130534 Intervention System for the Perdido SPAR Wet Tree Wells	207
<i>H. A. Larsen</i>	
SPE 130579 Laminar and Turbulent Friction Factors for Annular Flow of Drag-Reducing Polymer Solutions in Coiled-Tubing Operations	217
<i>C. C. Ogugbue, S. N. Shah</i>	
SPE 130580 Pinpoint Fracturing Technologies: A Review of Successful Evolution of Multistage Fracturing in the Last Decade	237
<i>M. Stanojcic, O. Jaripatke, A. Sharma</i>	
SPE 130584 The Use of Diutan Biopolymer in Coiled Tubing Drilling Mud Systems on the North Slope of Alaska	257
<i>J. G. Sarber, C. Reynolds, C. M. Michel, K. Haag, R. A. Morris</i>	

SPE 130625 New Field in East Siberia: Challenges of Performing CT Operation on Vankorskoe Field.....	268
<i>V. Bochkarev, A. Vorostov, S. Smetanin, S. Sitdikov, B. Von Hertzberg, S. Zagranichniy</i>	
SPE 130629 Comparison of Computational Fluid Dynamics of Erosion in Coiled Tubing on Various Wrap Diameters.....	282
<i>M. Bailey, I. L. Blanco, R. S. Rosine</i>	
SPE 130631 Milling Out Plugs in Bakken Horizontal Wells With the Aid of a Coiled Tubing Tractor	290
<i>E. Krueger, E. O'Neal, N. B. Moore</i>	
SPE 130632 Deliquification of South Texas Gas Wells Using Corrosion Resistant Coiled Tubing: A Six Year Case History	295
<i>K. L. Poppenhagen, L. K. Harms, R. Wilkinson, D. E. Glover</i>	
SPE 130633 Advances in Subsea Well Intervention BOP Qualifications.....	309
<i>S. J. Deshotels, P. McClanahan, J. Douty</i>	
SPE 130638 Cleaning Horizontal Wellbores Efficiently with Reverse Circulation Combining with Wiper Trip for Coiled Tubing Annulus Fracturing Application.....	313
<i>J. Li, B. Aitken, F. Jumawid, G. Alingig</i>	
SPE 130642 Expanding the Envelope of Coiled-Tubing (CT) Reach for Stimulation of Ultradeep Openhole Horizontal Wells.....	327
<i>M. A. Aldhufairi, S. Al-Ghamdi, J. V. Noya, K. Al-Aradi, S. Al-Sarakbi, A. F. Al-Dossary, E. Krueger, N. B. Moore</i>	
SPE 130647 A Transient Multi-Phase Flow Simulation using Steady-State Correlations for Coiled Tubing Applications – New Insights to Old Problems.....	338
<i>P. Salim, B. Aitken, J. Li</i>	
SPE 130655 High-Temperature Conformance Field Application Through Coiled Tubing: A Successful Case History.....	353
<i>G. Ramirez, G. Arredondo, Pemex; J. Chapa, R. Macias, J. E. Soriano</i>	
SPE 130672 The First Through-Tubing Capillary String Installation in the UK Sector of the North Sea.....	363
<i>B. Bremner, L. M. Murphy, R. J. Affinito, A. Larnach, D. L. Sanders, M. J. Taggart, M. J. Willis</i>	
SPE 130673 Application of Heavy-Duty Wireline Fishing Tools and Techniques Solves Complex Problem and Restores Well to Production.....	378
<i>G. J. C. Trujillo, J. M. Vincent, N. Robertson</i>	
SPE 130675 Pioneer Coiled Tubing Intervention Onboard Floating Production Storage and Offloading Vessel (FPSO) Offshore Brazil.....	384
<i>J. C. A. Pinto, Z. Guimaraes, V. A. Almeida, L. S. Raimundo, J. A. Bessa</i>	
SPE 130678 Coiled Tubing Fracturing: An Operational Review of a 43-Stage Barnett Shale Stimulation	394
<i>Juan Carlos Castañeda, Luis Castro, Steven Craig, Christopher Moore, James Myatt</i>	
SPE 130679 Lubricity of Brine Completion and Workover Fluids	406
<i>Mingjie Ke, William Foxenberg</i>	
SPE 130681 Tapered-OD Connection Using a Spoolable Connector	413
<i>M. A. Ehtesham, A. Zhong, R. E. Domann</i>	
SPE 130682 High-Risk Coiled-Tubing Intervention Results in Substantial Savings	426
<i>F. N. Thom, M. J. Taggart, J. D. Murdoch, B. Ewing</i>	
SPE 130685 Temperature and Salinity Effects on Drag-Reduction Characteristics of Polymers in Coiled Tubing.....	443
<i>S. N. Shah, A. Vyas</i>	
SPE 130688 Coiled-Tubing Intervention and Drilling System Using Cost-Effective Vessels.....	459
<i>K. K. Millheim, T. E. Williams, C. R. Yemington</i>	
SPE 130689 Selective Fracturing of a Series of Perforations in a Horizontal Well Using a Resettable Straddle System	471
<i>J. Thompson, M. M. Tomich</i>	
SPE 130693 Snubbing Units Used Effectively in Well-Control Recovery Efforts	480
<i>S. R. Wehrenberg, O. Baxter</i>	
SPE 130694 Fishing Live Perforating Guns Stuck in the Wellhead: The Challenges and Obstacles	488
<i>J. L. Powers</i>	
SPE 130695 The Design and Application of Snubbing Units for an HP/HT Environment	495
<i>S. R. Wehrenberg</i>	
SPE 130698 A New Synthetic Polymer Provides Improved Drag Reduction in Coiled-Tubing Operations in North Louisiana	506
<i>K. B. Fox, M. S. Bainum</i>	
SPE 130708 Nipple Profile Milling With Electric Wireline Interventions	514
<i>B. J. Schwanitz, A. Aji, J. P. Collins, K. Henriques</i>	

SPE 130718 Design and Development of a Tubing Repair Solution Using an Expandable Metal Patch	522
--	------------

D. A. Blane, A. J. Crossland

Author Index