Table of Contents

SPE-168229-MS
Successful Coiled-Tubing-Based Selective Stimulation of a Remote Well in Challenging Offshore Environment: A Case Study 1

SPE-168231-MS
Evolution of Coiled Tubing Industry in Offshore Mexico over the Last Decade 13

SPE-168232-MS
Breathing Second Life into an Old Well through Coiled Tubing Cement Squeeze for Brownfields in Malaysia 26
Y. Khor, S. Ismail, B. Prahawinarto, M. Mohamad, PETRONAS Carigali Sdn Bhd; N. Nik Sin, BJ Services

SPE-168233-MS
First Offshore Coiled Tubing Intervention Using a Catenary System in the Gulf of Mexico 42

SPE-168234-MS
Improving Coiled Tubing Operational Capabilities to Overcome New HP/HT Challenges in Mexico Offshore 51
U. Solis, J.d. Perez Damas, PEMEX; E. Franco, R.I. Ortega Alfonzo, M. Marin, A. Murillo Vallejo, Schlumberger; B.A. Reichert, C. Grimaldo, Tenaris

SPE-168235-MS
Extended Reach: Can We Reach Farther? 63
K.R. Newman, KN ewman Engineering; P. Kelleher, KNewman Engineering; E.A. Smalley, NOV CTES

SPE-168237-MS
New Chemical Treatment Selectively Placed via Coiled Tubing to Isolate Depleted Upper Zone Allows for Access and Stimulation of Unproduced Lower Zone 74
Table of Contents continued

SPE-168238-MS
Next Generation of Battery Operated Electromechanical Setting Tools Increases Reliability at High Temperatures 85

SPE-168239-MS
A Versatile High-Expansion Hanger Device for Suspension of Downhole Devices during Performance of Critical Asset Diagnostics and Enhancement Methods 91
R. Zbitowsky, M.A. Al-Murit, Saudi Aramco; M. Denmon, S. Gordon, J.F. Babin, M.C. Mlcak, Halliburton

SPE-168240-MS
Extending the Reach of Coiled Tubing in Directional Wells With Downhole Motors 100
O.I. Oyedokun, J. Schubert, Texas A&M University

SPE-168242-MS
Using E-Line Conveyance in Multi-Stage Fracturing to Optimize Efficiency: A Case From Bakken, ND 124
R.D. Mann, V. Schiavi, R. Bukowski, Welltec

SPE-168243-MS
Electric Line Tractor-Based Conveyance in High Temperature Wells: A Collection of Local Case Stories 132
M. Peoples, T. Hammill, O. Alferez, G.D. Murrill, Welltec

SPE-168245-MS
Use and Placement of Resin Blends to Effectively Isolate Existing Perforations when Fracture Stimulated Productive Horizons are below Existing Perforations: A Case History from the Middle East 141
L. Sierra, Pinnacle, A Halliburton Service; J.A. Noguera, Halliburton

SPE-168246-MS
Recent Developments to Coiled Tubing Equipment Design Improves Efficiency and Safety 149
I. Thomson, Boots & Coots, A Halliburton Service
**Table of Contents continued**

SPE-168247-MS  
**Defying Conventional Wisdom; Reversing Tapered Coiled Tubing Strings for Extended Life**  160  
R. Grant, Sanjel; L. Burgess, Talisman Energy

SPE-168248-MS  
**Coiled Tubing Operations on a Multi-Service Vessel for Deep Water Well Interventions in the Gulf of Mexico: A Decade of Experience**  168  
A. Rudnik, C.A. Torres, R. Ottolina, Schlumberger Coiled Tubing Services; J. Rourke, D. Barber, Helix Energy Solutions Group

SPE-168250-MS  
**Coiled Tubing Drilling: Increasing Horizontal Reach in the Kuparuk Field**  193  

SPE-168251-MS  
**Improving Wellsite Systems Integration**  205  
J.A. Shields, H. Brackel, Baker Hughes

SPE-168252-MS  
**Real Time Slickline: Unlocking Additional Production With Reduced Uncertainties in Limited Space Platforms**  213  
M. Abdul Razak, L.M. Dasan, S. Mohd Effendi, Petronas; T.I. Rakela, Schlumberger

SPE-168253-MS  
**Case Study of New Technology Introduction: Through Tubing Zonal Isolation with an Expandable Plug in Dual Completion Well**  219  
A. Al-Jasmi, A. Choudhuri, S.F. Desai, Kuwait Oil

SPE-168254-MS  
**Challenging Through-Tubing Intervention Succeeds Despite Extreme Well Conditions**  231  
F. Colmenares, A. Lopez, A. Qutob, Weatherford

SPE-168255-MS  
**Successful Mechanical Removal of Barium Sulfate Tubular Scale by Coiled Tubing: A Gulf of Mexico Case History of an Engineered Approach for Offshore Rigless Interventions**  241  
J.S. Sopngwi, A.C. Gauthreaux, D.E. Kiburz, Marathon Oil; B. Sonnier, D. Moghalu, S.K. Smith, Halliburton
Table of Contents continued

SPE-168258-MS
An Innovative Integrated Methodology to Deliquify Gas Well Using In-Well Live Performance Coiled Tubing for Velocity String Selection and Deployment: A Case Study in Saudi Arabia 248

SPE-168260-MS
Steel Coiled Tubing Defect Evaluation Using Magnetic Flux Leakage Signals 271
Z. Liu, G. Minerbo, A.S. Zheng, Schlumberger

SPE-168261-MS
Modeling and Validating Pressure Transient Effects on Inflatable Bridge Plugs during Coiled Tubing Conveyed Perforating 287
R. Xu, A. Shamisheva, R. Bucher, Schlumberger

SPE-168262-MS
Successful Application of Fiber-Optic-Enabled Coiled Tubing and Inflatable Packer Used for Testing the Formation’s Upper Zone 295
C. Gonzalez, J. Muñoz, Schlumberger; N.M. Orozco Posada, J. Higuera, Equion Energia; D. Nava, Schlumberger

SPE-168263-MS
2 3/8” and 2 7/8” OD Coiled Tubing Operations in Gulf of Mexico (GoM) Shelf: A Safe, Reliable, and Efficient Way to Prepare for Re-Entry of Wells to Conform to New BSEE Regulations 306
C.A. Torres, R. Ottolina, A. Rudnik, Schlumberger Coiled Tubing Services; C. Creppel, E. Bergeron, M. Broussard, Shell

SPE-168264-MS
Cut and Cap Process for Surface Casing Vent Flow Prevention 333
D. Sahnoun, J. Schneider, C.J. Sylvestre, Sanjel

SPE-168265-MS
Casing Patches Used to Temporarily Shut Off Reservoirs 343
P. Wilczek, R. Obersacher, GDF SUEZ E&P; A. Osmanovic, Weatherford
Table of Contents continued

SPE-168269-MS
Design Enhancements to Snubbing Unit Surface Equipment Delivers Improved Operational Efficiency and Safety 347
E. Sredensek, E. Bruin, Boots & Coots, A Halliburton Service

SPE-168270-MS
Perforating and Pipe Recovery with Digital Slickline First Application in Colombia Ballena Field 357
G.P. Arcila, Chevron; L.H. Perez, Schlumberger

SPE-168271-MS
Tubing Retrievable Surface Controlled Subsurface Safety Valve Floating Flapper Remediation 366
B.P. Gary, Halliburton; C. Hosli, Shell; A. Luviano, Welltech; J. Langley, Expro Group

SPE-168276-MS
Milling PosiSet Plugs with Coiled Tubing to Remove Zonal Isolation 376
J. Hester, C. Gil, M. Torres, Equion Energia

SPE-168277-MS
Corrosion Monitoring With EM Induction Tool in 3 Outer Casing Strings through a 7 Inch Chrome Production Tubing Scenario 385
C. Castañeda, J. Higuera, J.F. Portela, Equion Energia; M. Benavides, D.A. Valstar, S. Barnejee, Schlumberger

SPE-168278-MS
Optimizing Horizontal Wellbore Design to Extend Reach with Coiled Tubing 399
J. Forrester, Athabasca Oil Corporation; J. Yeung, F. Marzara, Essential Energy Services

SPE-168279-MS
Optimizing Frac Plug Mill Outs in Horizontal Wells using Coiled Tubing 417
M. Pawlik, J. Champagne, Shell E&P; J. Whitworth, C. Trebing, Thru Tubing Solutions

SPE-168280-MS
Comprehensive Analysis of Metal-to-Metal Lubricants in Oil Shale Plays 427
R. Barraez, J. Noland, D. Matheus, Sanjel; Z. Spence, SM Energy
<table>
<thead>
<tr>
<th>Paper Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE-168282-MS</td>
<td>Radial Drilling Revitalizes Aging Field in Tarim: A Case Study</td>
<td>X. Teng, P. Yang, N. Li, C. Yang, Tarim Oilfield PetroChina; Y. Jin, Y. Lu, China University of Petroleum(Beijing); B. Zhou, X. Wang, F. Zhang, J. Li, T. Zhang, X. Zhou, Tarim Oilfield PetroChina</td>
</tr>
<tr>
<td>SPE-168284-MS</td>
<td>Changing the Paradigm to No Wiper Trips When Plug Milling: Results From Over 600 Wells</td>
<td>N. Moore, E. Waters, Chesapeake Energy; J. Greer, S. Craig, Baker Hughes</td>
</tr>
<tr>
<td>SPE-168287-MS</td>
<td>Managing Risk and Reaping Reward in a High Temperature, High H₂S, Extended Reach Environment: A Case Study of a Coiled Tubing Stimulation Campaign in the UAE</td>
<td>S. Quinn, Abu Dhabi Gas Development [Al Hosn Gas]; C. Chrysovolou, Schlumberger; D.R. Erickson, B. Kumar Singh, Abu Dhabi Gas Development [Al Hosn Gas]; D. Haryanti, G.J. Bowen, Schlumberger</td>
</tr>
<tr>
<td>SPE-168288-MS</td>
<td>Isolation of Water Producing Interval in a Horizontal Well Completed with Multistage Fracturing System Using Two CT Inflatable Bridge Plugs</td>
<td>K. Burdin, R. Mazitov, P. Bravkov, D. Serikov, V. Klimenko, V. Zhuk, Schlumberger; A. Golovanev, A.A. Potryasov, V. Kovalev, R. Yunusov, Lukoil</td>
</tr>
<tr>
<td>SPE-168289-MS</td>
<td>Rheology and Flow Characteristics of Xanthan in Calcium Chloride Brine</td>
<td>K.A. Asafa, S.N. Shah, University of Oklahoma</td>
</tr>
<tr>
<td>SPE-168290-MS</td>
<td>Improving Post-Stimulation Coiled Tubing Drillout</td>
<td>K.A. Asafa, B.T. Williams, A. Gonzalez, M.T. Wiskofske, Marathon Oil Corporation</td>
</tr>
</tbody>
</table>
SPE-168291-MS  
Milling on Extended Horizontal Sections, Choice of Methods: Case Histories from the Chicontepec Area, Mexico  529  
J.R. Ortiz, E. Montes, Halliburton; L. Ramirez, G. Gutierrez, Pemex

SPE-168292-MS  
Beyond Logging: Slickline Operations Can Now Provide a More Efficient and Cost Effective Alternative to Traditional Intervention Operations  540  
R.K. Loov, M.E. Billingham, Schlumberger

SPE-168294-MS  
Coiled Tubing Material Selection for Velocity Strings in Sour Brine Service  548  
I. Ward, C.W. Lynn, R. Shaw, S. Hervo, Shell Canada

SPE-168295-MS  
Journey of a Coiled Tubing Catenary Operation: Best Practice at South China Sea  561  
W. Wan M Fabillalah, S.B. Abdul Ghani, Petronas; M. Ishak, M. Kasim, Schlumberger

SPE-168296-MS  
A Systematic Approach to Horizontal Well Perforating With Coiled Tubing in the South China Sea, Malaysia  575  
W.R. Tapia, J.R. Jenie, I. Sorman, Schlumberger

SPE-168297-MS  
Water Hammer Modeling in Extended Reach Wells  584  
S. Livescu, T. Watkins, Baker Hughes

SPE-168298-MS  
Increasing Lubricity of Downhole Fluids for Coiled Tubing Operations  598  
S. Livescu, S.H. Craig, Baker Hughes

SPE-168299-MS  
Analytical Downhole Temperature Model for Coiled Tubing Operations  615  
S. Livescu, X. Wang, Baker Hughes
<table>
<thead>
<tr>
<th>Paper Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE-168300-MS</td>
<td>Deviated Wells: Lessons Learned Employing the HPAP Technique</td>
<td>H. Pathak, Boots &amp; Coots, A Halliburton Service; B. Raina, F. Adil, Halliburton</td>
</tr>
<tr>
<td>SPE-168302-MS</td>
<td>Adaptability of Coiled Tubing Technology Enables Complex Well Abandonment in Gulf of Mexico Inland Waters</td>
<td>B.T. Webb, A. Rudnik, B.M. Bonin, K. Crider, Schlumberger</td>
</tr>
<tr>
<td>SPE-168303-MS</td>
<td>Optimizing Pipe Management with a New Approach of Coiled Tubing Integrity Monitoring</td>
<td>M. Torregrossa, L. Zsolt, M. Zwanenburg, Schlumberger</td>
</tr>
<tr>
<td>SPE-168304-MS</td>
<td>A History of Gas Lift Valve and Gas Lift Mandrel Damage and Subsequent Retrofit Gas Lift Straddle Installation in Alaska</td>
<td>J.Y. Julian, BP; J.C. Jackson, University of Fairbanks; T.M. White, Schlumberger</td>
</tr>
</tbody>
</table>