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
J.C. Perez, J. Lopez, A. Martinez, U. Solis, C. Deolarte, J.M. Huerta, Pemex; E. Franco, D. Hernandez,
R. Najera Hernandez, B. Hobson, N.J. Molero, M.A. Marin, Schlumberger

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
J. Huerta, R. Ramirez, Pemex; M. Marin, R.M. Kowalski, E. Franco, R.I. Ortega Alfonzo, G. Ponce, D. Hernandez,
Schlumberger; J.A. Ramos, SPE

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, KNewman 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
A.A. Dashash, A.R. Malik, A.E. Mukhliss, A.H. Al Yaseen, M. Albuali, Saudi Aramco; M. Haekal, Boots & Coots,
A Halliburton Service
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 Energía; 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. Oberascher, 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 of Contents continued

SPE-168281-MS
High Tension Electrically Controlled Release Device Improves Reliability Of Stuck Tool Release In The Gulf Of Thailand 439
K. Surapakpinyo, C. Hanchalay, Chevron; N. Fundytus, R. Ford, S. Pakdee, S.A. Sarian, A. Battula, N. Nery, Schlumberger

SPE-168282-MS
Radial Drilling Revitalizes Aging Field in Tarim: A Case Study 445
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

SPE-168284-MS
Changing the Paradigm to No Wiper Trips When Plug Milling: Results From Over 600 Wells 449
N. Moore, E. Waters, Chesapeake Energy; J. Greer, S. Craig, Baker Hughes

SPE-168287-MS
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 465
S. Quinn, Abu Dhabi Gas Development [Al Hosn Gas]; C. Chrysovoloul, Schlumberger; D.R. Erickson, B. Kumar Singh, Abu Dhabi Gas Development [Al Hosn Gas]; D. Haryanti, G.J. Bowen, Schlumberger

SPE-168288-MS
Isolation of Water Producing Interval in a Horizontal Well Completed with Multistage Fracturing System Using Two CT Inflatable Bridge Plugs 474
K. Burdin, R. Mazitov, P. Bravkov, D. Serikov, V. Klimenko, V. Zhuk, Schlumberger; A. Golovanev, A.A. Potryasov, V. Kovalev, R. Yunusov, Lukoil

SPE-168289-MS
Rheology and Flow Characteristics of Xanthan in Calcium Chloride Brine 486
K.A. Asafa, S.N. Shah, University of Oklahoma

SPE-168290-MS
Improving Post-Stimulation Coiled Tubing Drillout 504
K.A. Asafa, B.T. Williams, A. Gonzalez, M.T. Wiskofske, Marathon Oil Corporation
Table of Contents continued

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 Fabillah, 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 of Contents continued

SPE-168300-MS
Deviated Wells: Lessons Learned Employing the HPAP Technique  632
H. Pathak, Boots & Coots, A Halliburton Service; B. Raina, F. Adil, Halliburton

SPE-168301-MS
Composite: Is Multi-Plug Milling That Fast?  646
C.M. Cromer, I. Aviles, N. Li, Schlumberger

SPE-168302-MS
Adaptability of Coiled Tubing Technology Enables Complex Well Abandonment in Gulf of Mexico Inland Waters  653
B.T. Webb, A. Rudnik, B.M. Bonin, K. Crider, Schlumberger

SPE-168303-MS
Optimizing Pipe Management with a New Approach of Coiled Tubing Integrity Monitoring  667
M. Torregrossa, L. Zsolt, M. Zwanenburg, Schlumberger

SPE-168304-MS
A History of Gas Lift Valve and Gas Lift Mandrel Damage and Subsequent Retrofit Gas Lift Straddle Installation in Alaska  681
J.Y. Julian, BP; J.C. Jackson, University of Fairbanks; T.M. White, Schlumberger