

SPE EOR Conference at Oil and Gas West Asia 2016

Muscat, Oman
21 - 23 March 2016

Volume 1 of 2

ISBN: 978-1-5108-3124-7

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© (2016) by Society of Petroleum Engineers
All rights reserved.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact 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: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

VOLUME 1

SPE-179746-MS: TOWARD AN ALTERNATIVE BIO-BASED SP FLOODING TECHNOLOGY: II. BIOPOLYMER SCREENING AND EVALUATION	1
<i>Y.A. AlZahid, A.M. AlBoqmi, A.M. AlSofi</i>	
SPE-179749-MS: A COMPREHENSIVE STUDY FOR COMPLETION PLAN FOR THE STEAM FLOOD PILOTS	12
<i>Y. Alali, T. Sanyal, M. Kyanpour, M. Bagheri, T. Salter</i>	
SPE-179751-MS: INTEGRATED EOR SCREENING OF MAJOR KUWAIT OIL FIELDS USING QUALITATIVE, QUANTITATIVE AND RISK SCREENING CRITERIA	31
<i>H. Al-Mayan, M. Winkler, D. Kamal, S. AlMahrooqi, E. AlMaraghi</i>	
SPE-179752-MS: ALKALI-SURFACTANT-POLYMER PILOT IMPLEMENTATION IN SOUTH OMAN: ESTABLISHING WATERFLOOD BASELINE	44
<i>K. Al-Shuaili, S. Guntupalli, M. Al-Amri, Z. Nurzaman, G. Al-Hinai, Y. Svec</i>	
SPE-179754-MS: HIGH-RESOLUTION STUDIES OF POLYMER FLOODING IN HETEROGENEOUS LAYERED RESERVOIRS	54
<i>M. Shotton, K. Stephen, M.A. Giddins</i>	
SPE-179758-MS: A METHODOLOGY FOR ASSISTED HISTORY MATCH - APPLICATION TO AN EOR PILOT IN MIDDLE EAST	77
<i>A. Anand, K. Al-Abri, R. Mjeni</i>	
SPE-179759-MS: STUDIES ON SURFACTANT-POLYMER COMBINATION FLOODING FORMULATIONS FOR A HIGH SALINITY RESERVOIR	99
<i>Y. Zhu, M. Lei</i>	
SPE-179760-MS: STUDIES ON A HYBRID OF FOAM AND ASP FLOODING FURTHER EOR FOR THE RESERVOIR AFTER POLYMER FLOODING	108
<i>Y. Zhu, J. Fan, Q. Hou</i>	
SPE-179761-MS: PHASED HEATING AND SOLVENT INJECTION TO ENHANCE RECOVERY OF HEAVY OIL AND BITUMEN	118
<i>D. Zhu, G. Bunio, I.D. Gates</i>	
SPE-179762-MS: AN EXPERIMENTAL INVESTIGATION OF STEAM INDUCED PERMEABILITY CHANGES IN CLAY BEARING FORMATION OF NORTH KUWAIT	128
<i>A.K. Jain, K. Ahmed, H. Ferdous, P. Mishra, M. Al-Matrook, Y. Al-Ali, W. Al-Khamees, M. Piwowar, B. Rick</i>	
SPE-179764-MS: APPLICATION OF NANOPARTICLES TO IMPROVE THE PERFORMANCE OF MICROWAVE ASSISTED GRAVITY DRAINAGE (MWAGD) AS A THERMAL OIL RECOVERY METHOD	139
<i>H. Al-Farsi, P. Pourafshary, R.S. Al-Maamari</i>	
SPE-179765-MS: WATER CONFORMANCE TREATMENT USING SMG MICROGELS: A SUCCESSFUL FIELD CASE	153
<i>G. Dupuis, T. Lesuffleur, M. Desbois, J. Bouillot, A. Zaitoun</i>	
SPE-179766-MS: HEAVY CRUDE OIL RECOVERY ENHANCEMENT AND IN-SITU UPGRADING DURING STEAM INJECTION USING NI-CO-MO DISPERSED CATALYST	167
<i>S.M. Shuwa, R.S. Al-Hajri, A. Mohsenzadeh, Y.M. Al-Wahaibi, B.Y. Jibril</i>	
SPE-179767-MS: OIL RECOVERY ENHANCEMENT IN CARBONATE RESERVOIRS VIA LOW SALINE WATER FLOODING IN PRESENCE OF LOW CONCENTRATION ACTIVE IONS; A CASE STUDY	184
<i>A. Mohsenzadeh, P. Pourafshary, Y. Al-Wahaibi</i>	
SPE-179768-MS: CONTROLLING INTERACTIONS OF COLLOIDAL PARTICLES AND POROUS MEDIA DURING LOW SALINITY WATER FLOODING AND ALKALINE FLOODING BY MGO NANOPARTICLES	198
<i>Y. Assef, P. Pourafshary, H. Hejazi</i>	
SPE-179770-MS: CASE STUDY ON A NEW APPROACH FOR EXPLOITING HEAVY OIL RESERVOIRS WITH SHALE BARRIERS	205
<i>G. Yongrong, G. Erpeng, L. Jian, J. Youwei, W. Hongyuan, W. Yao</i>	
SPE-179771-MS: REPRESENTATION OF PHASE BEHAVIOR AND PVT WORKFLOW FOR DME ENHANCED WATER-FLOODING	215
<i>J.A.W.M. Groot, A. Chernetsky, P.M. Te Riele, B. Dindoruk, J. Cui, L.C. Wilson, R. Ratmakar</i>	

SPE-179772-MS: CARBONATE RESERVOIR FIELD EXPERIMENTS IN EXTREME STEAM CONDITIONS, BAHRAIN FIELD	234
<i>S. Smith, S. Parakh</i>	
SPE-179773-MS: EXPERIENCES OF CONVERSION FROM CYCLIC STEAM STRATEGY TO CONTINUOUS STEAM STRATEGY IN ISSARAN EGYPT FIELD	251
<i>G.S. Basta, S.K. Korany, W.T. Kortam, S. Shaker</i>	
SPE-179775-MS: PRODUCTION AND APPLICATION OF SCHIZOPHYLLAN IN MICROBIAL ENHANCED HEAVY OIL RECOVERY	277
<i>S.J. Joshi, Y.M. Al-Wahaibi, S. Al-Bahry, A. Elshafte, A.S. Al-Bemani, A. Al-Hashmi, P. Samuel, M. Sassi, H. Al-Farsi, M.S. Al-Mandhari</i>	
SPE-179776-MS: MANAGEMENT OF VISCOSITY OF THE BACK PRODUCED VISCOSIFIED WATER	292
<i>O. Rambeau, M.H. Alves, N. Andreu, M. Loriau, N. Passade-Boupat</i>	
SPE-179777-MS: APPLICATION OF FIBER OPTICS IN EOR TRIALS	304
<i>J. Irvine-Fortescue, F. Battashi, D. Rubalcava</i>	
SPE-179778-MS: MODELING OF CO₂ EOR PROCESS COMBINED WITH INTERMEDIATE HYDROCARBON SOLVENTS FOR HIGHER RECOVERY EFFICIENCY	321
<i>J. Cho, T.H. Kim, K.S. Lee</i>	
SPE-179779-MS: A NEW INSIGHT ON THE IMPACT OF INDIVIDUAL IONS ON FLUID/FLUID INTERACTIONS AND SMARWATER RECOVERY	333
<i>M.A. AlGeer, A. Gmira, S.M. Al-Enezi, A.A. Yousef</i>	
SPE-179781-MS: SYNERGY BETWEEN LOW SALINITY WATER FLOODING AND CO₂ FOR EOR IN CHALK RESERVOIRS	342
<i>A.A. Hamouda, A. Pranoto</i>	
SPE-179783-MS: LONG-TERM UTILIZATION OF EARLY DEPLETION FACILITIES (EDF) AS A FIRST PHASE OF MGI-EOR DEVELOPMENT FOR SOUR FIELDS IN SOUTH OMAN	358
<i>A. Al-Hadrami, R. Schulz, S. Barwani, K. D'Amours</i>	
SPE-179784-MS: CHALLENGES AND LEARNINGS FROM DEVELOPING HIGH PRESSURE SOUR RESERVOIRS IN SOUTHERN OMAN BY EOR MGI	371
<i>A. Al-Hadhrami, R. Schulz, H. Alawi, M.M.K. D'Amours, S. Barwani, A. Jabri, M. Proot</i>	
SPE-179785-MS: AN OPERATIONAL WORKFLOW FOR POLYMER EOR FIELD TRIALS	387
<i>G. Geremia, M.V. Bennetzen</i>	
SPE-179786-MS: A NUMERICAL METHOD FOR 3-DIMENSIONAL FLUID FRONT INVESTIGATION FOR LONG HORIZONTAL WELLS USING PRESSURE TRANSIENT ANALYSIS	397
<i>S.F.H. Gilani, G. Tarsauliya, M.V. Bennetzen, C. Evans</i>	
SPE-179787-MS: LEARNINGS FROM RESERVOIR SOURING ASSESSMENT ON AN OFFSHORE MALAYSIAN FIELD	419
<i>F. Zhu, C. Kuijvenhoven, N.B. Borhan, S.J. Dickson, B. Lomans</i>	
SPE-179788-MS: ASSESSING OIL SATURATION FROM SINGLE WELL CHEMICAL TRACER TESTS BY ASSISTED HISTORY MATCHING	430
<i>O. Huseby, G.A. Zarruk, C. Callegaro, M. Bartosek</i>	
SPE-179789-MS: A CRITICAL INVESTIGATION OF OPTIMIZATION OF STEAM-ASSISTED GRAVITY DRAINAGE (SAGD) IN NATURALLY-FRACTURED HEAVY OIL CARBONATE RESERVOIRS	445
<i>C. Tamizel, T. Tuna, M. Gokmen, A. Tiwari</i>	
SPE-179791-MS: SUCCESSFUL FIELD TEST OF A NEW POLYMER FLOODING TECHNOLOGY FOR IMPROVING HEAVY OIL RESERVOIR RECOVERY -- CASE STUDY OF STRONGLY HETEROGENEOUS AND MULTI-LAYER CONGLOMERATE HEAVY OIL RESERVOIR XJ6	465
<i>X. Wu, S. Zhang, C. Xiong, S. Liu, C. Cai, M. Zhao, Z. Yu, B. Li, H. Xu, Y. Wu, N. Yang, Y. Ye, X. Tian, J. Chen</i>	
SPE-179792-MS: IMPACT OF LIVE CRUDE OIL COMPOSITION ON OPTIMAL SALINITY OF A SURFACTANT FORMULATION	479
<i>C. Marliere, B. Creton, F. Oukhemanou, N. Wartenberg, T. Courtaud, C. Fejean, S. Betoulle, D. Defiolle, P. Mougin</i>	
SPE-179793-MS: STUDY ON THE ASP SWITCHABLE SURFACTANT FOR DAQING OILFIELD	493
<i>Q. Hou, G. Donghong, O. Jian</i>	
SPE-179794-MS: HIGH CONCENTRATION POLYMER FLOODING FIELD TEST WITH WELL INFILLING TO CHANGE FLUID FLOWING DIRECTION AFTER POLYMER FLOODING	501
<i>S. Gao, Z. Jiang, K. Zhang, H. Liu, Q. Fu, W. Yan, B. Fu</i>	

SPE-179796-MS: DEVELOPMENT AND EVALUATION OF GEL-BASED CONFORMANCE CONTROL FOR A HIGH SALINITY AND HIGH TEMPERATURE CARBONATE	513
<i>J. Wang, A. M. AlSofi, A.M. Alboqmi</i>	
SPE-179797-MS: LABORATORY INVESTIGATION OF POLYMERIC SURFACTANTS FOR EOR IN HIGH SALINITY AND HIGH TEMPERATURE RESERVOIR	527
<i>L. Guo, M. Han, A. Fusesi, A. AlSofi</i>	
SPE-179798-MS: FIELD-SCALE MODELLING AND SENSITIVITY ANALYSIS OF DME ENHANCED WATERFLOODING	534
<i>J.A.W.M. Groot, D. Eikmans, A. Fadili, J.E. Romate</i>	
SPE-179799-MS: STUDY ON THERMAL-GAS EOR METHOD IN IN-DEPTH EXTRA-HEAVY OIL RESERVOIR IN CHINA	556
<i>E. Guo, Y. Jiang, Y. Gao, H. Wang, Y. Wei</i>	
SPE-179800-MS: A NEW APPROACH TO OBTAIN PRODUCER FBHP AND FBHT FROM SCADA DATA IN THE SCHOONEBEEK STEAMFLOOD	564
<i>A. Zakharov</i>	
SPE-179801-MS: CAN ASSOCIATIVE POLYMERS REDUCE THE RESIDUAL OIL SATURATION?	582
<i>R. Reichenbach-Klinke, A. Stavland, D. Strand, B. Langlotz, G. Brodt</i>	
SPE-179802-MS: ASP AS A BROWN FIELD RE-DEVELOPMENT OPPORTUNITY - BASED ON A CASE STUDY: PART 2	602
<i>A. Anand, D. Eikmans, D. Boersma</i>	
SPE-179803-MS: EVALUATION OF MIXING IN LOW SALINITY WATERFLOODING	623
<i>A. Attar, A.H. Muggeridge</i>	
SPE-179806-MS: IMPACT OF OIL ON STEAM FOAM FORMULATIONS AT 250 °C	644
<i>A. Cuenca, E. Lacombe, M. Chabert, M. Morvan, E. Delamaide</i>	
SPE-179807-MS: CHALLENGES IN FULL FIELD POLYMER INJECTION MANGALA IN FIELD	663
<i>N. Mehta, G. Kapadia, V.P. Selvam</i>	
SPE-179808-MS: COMPARISON OF IMPLICIT-TEXTURE AND POPULATION-BALANCE FOAM MODELS	674
<i>M. Lotfollahi, R. Farajzadeh, M. Delshad, A. Varavei, W.R. Rossen</i>	

VOLUME 2

SPE-179809-MS: THE APPLICATION OF CYCLIC STEAM STIMULATION IN HEAVY OIL RESERVOIR WITH A HIGH WATER CUT	704
<i>A.S. Abdullah, A.H. Suleiman, B. Abdesslam, A.H. Sumaiya</i>	
SPE-179810-MS: THE CHALLENGES OF MISCIBLE GAS INJECTION PROJECT: TOWARDS TOP QUARTILE OIL RECOVERY IN AN EXTREMELY TIGHT SOUR RESERVOIR	725
<i>M. Cobanoglu, A. Jabri, O.Q. Sarmiento, L. Tallentire, A. Hadhrami</i>	
SPE-179811-MS: CT-SCAN MONITORING OF COMBINED CHEMICAL EOR PROCESSES IN FRACTURED CARBONATE CORES	739
<i>E. Rosenberg, M. Robin, B. Bourbiaux, M. Chabert, E. Chevallier, S. Gautier</i>	
SPE-179812-MS: CHALLENGES AND LEARNINGS FROM THERMAL DEVELOPMENT OF THICK HEAVY OIL RESERVOIRS IN SOUTHERN OMAN	757
<i>A. Belghache, S. Al-Hinai, A. Rabaani, M. Manhali, J.P. Tromp, S. Holyak, K. D'Amours, S. Afifi, A. Ajmi</i>	
SPE-179813-MS: FIBER OPTIC BASED RESERVOIR SURVEILLANCE FOR INJECTION CONFORMANCE MONITORING AND PRODUCTION PROFILING IN EOR FIELDS	771
<i>G. Hemink, L. Groen, G. Deitrick, J. van der Horst, J. Kechichian, G. Bakker</i>	
SPE-179814-MS: RESULTS & INTERPRETATION OF A HIGH VISCOUS POLYMER INJECTION TEST IN A SOUTH OMAN HEAVY OIL FIELD	785
<i>D. Rubalcava, N. Al-Azri</i>	
SPE-179815-MS: SOLVENT ENHANCED STEAM DRIVE: RESULTS FROM THE FIRST FIELD PILOT IN CANADA	800
<i>O. Castellanos-Diaz, M.L. Verlaan, R. Hedden</i>	
SPE-179818-MS: APPLICATION OF CYCLIC STEAM STIMULATION ON XYZ FORMATION IN SULTANATE OF OMAN	816
<i>M. Al Raqmi, H. Al Saadi, M. Mirza, S.S. Al Bahlouli, M.A. Arham, H.S. Setiawan, B. Al Amri</i>	
SPE-179820-MS: FIELD IMPLEMENTATION OF MANGALA POLYMER FLOOD: INITIAL CHALLENGES, MITIGATION AND MANAGEMENT	829
<i>P. Kumar, R. Raj, N. Koduru, S. Kumar, A. Pandey</i>	

SPE-179821-MS: POLYMER INJECTIVITY TEST IN BHAGYAM FIELD: PLANNING, EXECUTION AND DATA ANALYSIS	849
<i>K.K. Sharma, S. Mishra, P. Kumar, A. Pandey, S. Jain, P. Ghosh, L. Mishra, N. Koduru, N. Agrawal, M.K. Kushwaha</i>	
SPE-179822-MS: LOW TENSION WATER FLOOD LTWF FOR ENHANCED OIL RECOVERY IN A TIGHT CARBONATE OILFIELD	869
<i>A.A. Al-Rubkhi, M. Karimi, M. Hadji, S. Dahlab, R.S. Al-Maamari, M. Aoudia</i>	
SPE-179823-MS: LABORATORY SUPPORT OF HEAVY-OIL POLYMER FLOOD PROJECT	883
<i>R.S. Al-Maamari, A. Al-Hashmi, N. Al-Azri, O. Al-Riyami, R. Al-Mjeni, G. Dupuis, A. Zaitorn</i>	
SPE-179824-MS: MONITORING IOR/EOR ONSHORE WITH FREQUENT TIME-LAPSE SEISMIC - STATUS AND SURVEY ADAPTATIONS FOR THE MIDDLE EAST	897
<i>A. Mateeva, K. Homman, S. Grandi, H. Potters, J. Lopez, J. La Follett</i>	
SPE-179825-MS: COMBINED WATER/SAND CONTROL POLYMER TREATMENTS IN OFFSHORE GAS WELLS	911
<i>G. Dupuis, J. Bouillot, A. Zaitoun, G. Caremi, G. Burrafato</i>	
SPE-179826-MS: NANOPARTICLES AS FOAM STABILIZER FOR STEAM-FOAM PROCESS.....	921
<i>M. Khajehpour, S.R. Etmnan, J. Goldman, F. Wassmuth, S. Bryant</i>	
SPE-179827-MS: MONITORING THERMAL AND MECHANICAL STABILITY OF ENHANCED OIL RECOVERY EOR ACRYLAMIDE BASED POLYMERS PAM THROUGH INTRINSIC VISCOSITY IV DETERMINATION USING A NEW CAPILLARY RHEOLOGY TECHNIQUE.....	935
<i>L. Rodriguez, A. Mejia, S. Reynaud, G. Lespes, C. Favero, S. Antignard, B. Giovannetti, N. Gaillard, G. Dupuis, M. Loriau, S. Jouenne, B. Grassl</i>	
SPE-179828-MS: EVALUATION OF MOVED OIL VOLUME AND VISCOSITY WITH NMR AND DIELECTRIC DISPERSION LOGS IN A HEAVY OIL SANDSTONE RESERVOIR UNDER STEAM INJECTION.....	948
<i>M. Claverie, A. Yaliz, E. Le Bris</i>	
SPE-179829-MS: USE OF SOLVENTS WITH STEAM - STATE-OF-THE-ART AND LIMITATIONS.....	962
<i>B. Bayestehparvin, S.M.F. Ali, J. Abedi</i>	
SPE-179830-MS: CASE STUDY IN MIDDLE EAST, IMPROVE HEAVY OIL PRODUCTION AND RECOVERY BY RESERVOIR MODIFICATION AS ALTERNATIVE TECHNOLOGY TO STEAM AND MISCIBLE GAS INJECTION.....	993
<i>H. Al Saadi, M. Mirza, B. Al Amri, L. Mucharam, W. Nugroho, K. Al-Hinai</i>	
SPE-179831-MS: MISCIBLE GAS EOR PILOT DESIGN DECISIONS DRIVEN BY LINKING EOR PERFORMANCE PARAMETERS TO UNCERTAINTIES - A KUWAIT FIELD EXAMPLE.....	1005
<i>S. Sharma, D. Kamal, E. Al-Maraghi, S. AlMahrooqi, M. Winkler</i>	
SPE-179832-MS: DESIGN OF CO2 INJECTION PILOT IN OFFSHORE MIDDLE EAST CARBONATE RESERVOIR	1016
<i>J. Kumar, E. Draoui, S. Takahashi</i>	
SPE-179833-MS: KEY LEARNINGS FROM FIRST 2 YEARS OF A FULL FIELD CSS DEVELOPMENT IN OMAN	1026
<i>S. Bettembourg, S. Holyoak, A. Alwazeer, M. Manhali, M. Rawahi, A. Habsi</i>	
SPE-179834-MS: IMPROVING POLYMER FLOODING EFFICIENCY IN OMAN OIL FIELDS	1043
<i>A.R. Al-Hashmi, T. Divers, R.S. Al-Maamari, C. Favero, A. Thomas</i>	
SPE-179835-MS: AN INTEGRATED REJUVENATION PROJECT IN THE UK. FROM GAS DISPOSAL ISSUE TO WAG OPPORTUNITY	1061
<i>M. Manotti, S. Renna, M. Mattei, G. Foglio, P. Mariotti</i>	
SPE-179837-MS: THERMAL EOR IN OMAN HEAVY OIL FRACTURED PORTFOLIO: LEARNING FROM AQUIFER COMMUNICATION AND OFFTAKE MANAGEMENT.....	1073
<i>T. Al-Aulaqi, A. Soleimani, L. Bellmann, H. Attalla, N. Al-Azri</i>	
SPE-179838-MS: PERSISTENCE IN EOR - DESIGN OF A FIELD TRIAL IN A CARBONATE RESERVOIR USING SOLVENT-BASED WATER-FLOOD PROCESS	1097
<i>A. Alkindi, N.Al-Azri, D. Said, K. AlShaili, P.T. Riele</i>	
SPE-179839-MS: LOW TENSION GAS PROCESS IN HIGH SALINITY AND LOW PERMEABILITY RESERVOIRS	1111
<i>A. Das, N. Nguyen, R. Farajzadeh, N. Azri, J. Southwick, S. Vincent-Bonnieu, P. Nguyen</i>	
SPE-179840-MS: IMPROVING REACTIVE TRANSPORT MODELLING PREDICTIVITY FOR ASP FLOODING SIMULATIONS.....	1123
<i>X. Li, L. Wei, H. Zhang</i>	
SPE-179841-MS: DETERMINATION OF OPTIMAL CONDITIONS FOR ADDITION OF FOAM TO STEAM FOR CONFORMANCE CONTROL.....	1143
<i>S.R. Etmnan, J. Goldman, F. Wassmuth</i>	

SPE-179842-MS: METHODOLOGY OF FOAM-SURFACTANT EOR FOR PILOT DESIGN STUDIES IN NATURALLY FRACTURED RESERVOIRS	1155
<i>M. Abbaszadeh, F.R. De-La Garza, A.E. Vilavicencio</i>	
SPE-179843-MS: ENHANCED OIL RECOVERY BY SEAWATER FLOODING IN HALFAYA CARBONATE RESERVOIR, IRAQ: EXPERIMENT AND SIMULATION	1177
<i>G. Zhu, L.K. Xu, X. Wang, F. Liu, Y. Cong, Y. Zhang, J. Ou</i>	
SPE-179844-MS: MECHANISTIC SIMULATION OF RESIDUAL OIL SATURATION IN VISCOELASTIC POLYMER FLOODS.....	1193
<i>M. Lotfollahi, H. Koh, Z. Li, M. Delshad, G.A. Pope</i>	
SPE-179845-MS: PARTITION COEFFICIENT RELATIONS IN SURFACTANT-OIL-BRINE SYSTEMS FOR IMPROVED DESCRIPTION OF MICROEMULSION PHASE BEHAVIOR	1206
<i>V.A. Torrealba, R.T. Johns</i>	
SPE-179846-MS: THE CHRONOLOGY OF STEAM PILOTING IN THE RUBBLE HEAVY OIL RESERVOIR, AWALI FIELD, BAHRAIN	1249
<i>A. Al Balushi, A. Mohamed</i>	
SPE-179848-MS: LIFE BUOY TO A DYING OIL FIELD IN HUNGARY	1268
<i>J. Szeleenyi</i>	
SPE-179849-MS: IMPLEMENTING A WATER SOLUBLE SOLVENT BASED ENHANCED OIL RECOVERY TECHNOLOGY - ASPECTS OF FIELD DEVELOPMENT PLANNING	1277
<i>P. Riele, C. Parsons, P. Boerrigter, J. Plantenberg, B. Suijkerbuijk, J. Burggraaf, A. Chernetsky, D. Boersma, R. Broos</i>	
SPE-179850-MS: EXPERIMENTAL INVESTIGATION OF DIMETHYL ETHER/POLYMER HYBRID AS AN ENHANCED OIL RECOVERY METHOD	1288
<i>M. Chahardowli, R. Farajzadeh, H. Bruining</i>	
SPE-179851-MS: MODIFIED SURFACTANT INJECTION TO ENHANCE OIL PRODUCTION AND RECOVERY, CASE STUDY: OMANI CARBONATE RESERVOIR.....	1304
<i>I.S. Al-Sinani, S.H. Al-Jabri, N.A. Al-Rawahy, I. Al-Rawahy, K. Al-Hinai, M. Leksono</i>	
SPE-179852-MS: NORTH SABAH EOR ADP – EXAMINING THE CHALLENGES OF OFFSHORE ASP DEVELOPMENT	1317
<i>K. Kovalev, B. Agarwal, R. Harris, H. Jaspers</i>	
SPE-179853-MS: EFFECT OF STEAM INJECTION INTERRUPTION ON SAGD PERFORMANCE.....	1332
<i>S.M.F. Ali</i>	
SPE-179855-MS: FOAM PROPAGATION IN ROCK SAMPLES: IMPACT OF OIL AND FLOW CHARACTERIZATION	1343
<i>G. Batot, M. Fleury, E. Rosenberg, L. Nabzar, M. Chabert</i>	
SPE-179856-MS: STEAM PILOTING IN THE ARUMA RESERVOIR, AWALI FIELD, BAHRAIN	1351
<i>S. Stearns, A. Mohamed, A. Al Balushi</i>	
SPE-179857-MS: INCREASING RECOVERY OF VENEZUELAN EXTRA-HEAVY OIL FROM A THIN-BEDDED RESERVOIR: FIRST INSIGHTS ON A NEW SURFACTANT-POLYMER APPROACH	1361
<i>F. Rodriguez, D. Rousseau, S. Bekri, S. Hocine, G. Degre, M. Djabourov, C.A. Bejarano</i>	
SPE-179860-MS: COMPREHENSIVE STUDY OF POLYMER GEL PROFILE CONTROL FOR WAG PROCESS IN FRACTURED RESERVOIR: USING EXPERIMENTAL AND NUMERICAL SIMULATION	1377
<i>K. Xiao, L. Mu, X. Wu, L. Yang, F. Xu, G. Zhu, Y. Zhu</i>	
Author Index	