Monday, 16 April 2018, 0830–1000
01 Plenary Session
Room 1
Mark Holtz, GE Global Research

Monday, 16 April 2018, 1030–1200
02 Viscous and Heavy Oil I
Room 1
Roman Berenblyum, Intl Research Inst of Stavanger
Julian Barnes, Shell Global Solutions

1030  190236  Modeling Wettability Change in Sandstones and Carbonates Using a Surface-Complexation-Based Method
A. Kazemi Nia Korrani, BP America Inc; G.R. Jerauld, BP

1100  190174  De-risking Alaskan Viscous Oil: Study, Field Trial Plans, and Challenges for Improving Recovery via IOR/EOR
A. Garg, Petrotechnical Resources Alaska; F.A. Paskvan, BP plc; G. Jerauld, BP Houston; T.L. Gould, Intl. Reservoir Technologies; R. Skinner, IRT

1130  190290  Laboratory Studies of Ternary Surfactant Formulation for EOR in Oil-Wet, High-Temperature Carbonate Formations
M. Puerto, J.L. Lopez-Salinas, M.G. jian, G.J. Hirasaki, C.A. Miller, Rice University

Alternate

190190  Reducing Uncertainty at the Chichimene In situ Combustion Pilot by means of a Nitrogen Connectivity Test
M.L. Trujillo Portillo, E. Niz Velasquez, Ecopetrol SA; C. Delgadillo, ECOPETROL S.A; Y.P. Claro Perez, E. Rodriguez, Ecopetrol SA; R. Rojas, ECOPETROL S.A

190178  Evaluation of Viscosity Loss of Viscosified Brine Solutions Due to Shear Degradation in Distribution System Components
T.P. Theriot, D.A. ALEXIS, H. Linnemeyer, Chevron ETC; T. Malik, Chevron Corporation; C. Perdue, Jr., Chevron ETC; V. Dwarakanath, Chevron Corporation

03 Conformance
Room 2
Eric Delamaide, IFP Technologies Canada Inc.

1030  190256  Solvent Leakoff during Gel Placement in Fractures: Extension to Oil-Saturated Porous Media
B. Brattekas, The National IOR Centre of Norway, Dept. of Petroleum Technology, University of Stavanger; G. Ersland, University of Bergen; R.S. Seright, New Mexico Inst-Mining & Tech
Smart Gels for Conformance Improvement in Waterflooding
C. Temizel, Aera Energy LLC

A Three Decades Review for Responses of Injection Well Gel Treatments
M.N. Aldhaheri, Missan Oil Company; M. Wei, B. Bai, Missouri University of Science & Tech

Performance of Conformance Gels Under Harsh Conditions
M.O. Unomah, Chevron Corporation; R.G. Shong, Chevron; J.F. App, Chevron Corporation; D. Kim, Chevron ETC; T. Malik, V. Dwarakanath, Chevron Corporation

Surfactant Flooding in Offshore Environments
J.G. Southwick, Shell Global Solutions N.V.; A. Abdul Manap, PETRONAS Research Sdn Bhd; C. van Rijn, Shell Global Solutions N.V.; E. Van Den Pol, D.W. Van Batenburg, Shell Global Solutions International BV; A. Kalantar Mastan, N. Zulkifli, Group Research and Technology PETRONAS

An Update on Full Field Implementation of Chemical Flooding in Daqing Oilfield, China, and Its Future
S. Yin, Missouri University of Science and Technology; H. Pu, University of North Dakota

Deployment of Large Scale Surfactant Manufacture for EOR Projects
J.R. Barnes, Shell Global Solutions; D. Covin, Shell Chemical Company; L. Crom, M. Doll, T. King, Shell Global Solutions US Inc; P. Kunkeler, Shell Chemicals Europe B.V.; D. Perez Regalado, Shell Global Solutions International BV

Core Scale Simulation of Spontaneous Solvent Imbibition from HPAM Gel
P. Andersen, University of Stavanger; A. Lohne, Intl Research Inst of Stavanger; A. Stavland, International Research Institute of Stavanger (IRIS); A. Hiorth, Department of Petroleum Engineering, University of Stavanger; B. Brattekas, the National IOR Centre of Norway, Dept. of Petroleum Engineering, University of Stavanger
### 05 Foams in EOR

**Room 4**

**Eduardo Manrique**, PDVSA Intevep  
**David Levitt**, Abu Dhabi Marine Operating Co.

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#### 1030 Session
**Ultralow-Interfacial-Tension Foam Injection Strategy Investigation in High Temperature Ultra-High Salinity Fractured Carbonate Reservoirs**

P. Dong, M. Puerto, G. Jian, Rice University; K. Ma, K. Mateen, G. Ren, Total E&P USA; G. Bourdarot, D.C. Morel, Total SA; S.L. Biswal, G.J. Hirasaki, Rice University

#### 1100 Session
**Foam Generation By Capillary Snap-off In Flow Across A Sharp Permeability Transition**

S.Y. Shah, K.A. Wolf, Delft University of Technology; R. Pilus, University Teknologi PETRONAS; W.R. Rossen, Delf University of Technology

#### 1130 Session
**Improving CO2 Foam for EOR Applications Using Polyelectrolyte Complex Nanoparticles Tolerant of High Salinity Produced Water**

N. Nazari, J. Tsau, R. Barati Ghaiffarokhi, University of Kansas

### Alternate

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**Foaming Behavior of CO2-Soluble, Viscoelastic Surfactant in Homogenous Porous Media**

G. Ramadhan, Q.P. Nguyen, The University of Texas At Austin

### 06 Reservoir/Characterization/Simulation Tight Oil

**Room 5**

**Carmen Hinds**, Chevron Africa & Latin America E&P  
**Elio Dean**, Colorado School of Mines

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#### 1030 Session
**Understanding the Oil Recovery Mechanism in Mixed-Wet Unconventional Reservoirs: Uniqueness and Challenges of Developing Chemical Formulations**

B. Barzegar Alamdar, T. Hsu, D.T. Nguyen, M. Kiani, M. Salehi, Nalco Champion

#### 1100 Session
**Underlying Mechanisms of Tight Reservoir Wettability and its Alteration**

P. Luo, P.P. Nakutnyy, Saskatchewan Research Council

#### 1130 Session
**Feasibility of CO2-EOR in Shale-Oil Reservoirs Based on a Laboratory Database**

D.K. Alfarge, Missouri University of Science & Tech; M. Wei, B. Bai, Missouri University of Science & Tech

### Alternate

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**Application of Surfactant Blends in Shale Chemical EOR at High Temperatures**

K.K. Mohanty, T. Zeng, C.S. Miller, The University of Texas At Austin
Monday, 16 April 2018, 1330–1700
07 Unconventional Oil EOR I
Room 1
Birol Dindoruk, Shell International E&P Co.
William Obrien, Permian Resources, LLC

1330  190305  Diffusion-Dominated Proxy Model for CO2 Huff’n’Puff in Ultra-Tight Oil Reservoirs
       M.B. Cronin, H. Emami Meybodi, R.T. Johns, Pennsylvania State University

1400  190226  Gas Injection EOR in Niobrara and Codell Using a Dual-porosity Compositional Model
       Y.D. Ning, H. Kazemi, Colorado School of Mines

1430  190304  Optimizing CO2 and Field Gas Injection EOR in Unconventional Reservoirs Using the Fast Marching Method
       A. Iino, Texas A&M University (PE DEPT); A. Datta-gupta, Texas A&M University

1530  190277  Mechanistic Study for Applicability of CO2-EOR in Unconventional Liquids Rich Reservoirs
       D.K. Alfarge, Missouri University of Science & Tech; M. Wei, B. Bai, Missouri University of Science & Tech

1600  190323  CO2 Injection for EOR in Organic Rich Shale: An Experimental Study
       F.D. Tovar, Texas A&M University (PE DEPT); M.A. Barrufet, D.S. Schechter, Texas A&M University

1630  190244  The Impact of Heterogeneity on Phase Behavior Modeling in Unconventional EOR
       A. Venkatraman, ReserMine Technology Solutions LLC; B. Dindoruk, Shell International E&P Co.

Alternate

190188  A Systematic Approach for Upscaling of the EOR Results from Lab-scale to Well-scale in Liquid-Rich Shale Plays
        R. Ghanbarnezhad Moghanloo, The University of Oklahoma; D. Davudov, A. Tinni, University of Oklahoma

190280  Assessment of CO2, Methane and Nitrogen Flooding in Ultra Tight Formation: A Bakken Case Study
        B.N. Yolo, University of North Dakota
08 Reservoir Management
Room 2
Dane Cantwell, KA Energy Partners
Mark Wilkins, Devon Energy Production Co. LP

1330  190161  Modeling CO2 Partitioning at a Carbonate CO2-EOR Site: Permian Basin Field (SACROC Unit)
       P. Hosseininoosheri, S. Hosseini, V. Nunez, Bureau of Economic Geology; L.W. Lake, The University of Texas at Austin

1400  190206  Learning Reservoir Dynamics Metrics of Improved Oil Recovery Projects by Harnessing Real-Time Analysis and Data Analytics
       A.C. Ordonez Bustamante, Z. Reza, University of Oklahoma; S. Kabir, University of Houston

1430  190295  Risk Management of Miscible Gas Flooding in Asphaltic Reservoirs
       A. Abouie, The University of Texas at Austin; H. Darabi, Quantum Reservoir Impact LLC; K. Sepehrnoori, The University of Texas At Austin

1530  190182  Three-phase Coning Solution to Steady-state Flow for Multiple Wells Under Vertical Equilibrium

1600  190239  Fast Evaluation of WAG Injection Parameters in Heterogeneous Models Using Machine Learning
       A. Nwachukwu, The University of Texas at Austin; H. Jeong, Bureau of Economic Geology; L.W. Lake, The University of Texas At Austin

1630  190264  Case Studies for Characterization of Waterflood-Induced Fracture in Tight Reservoir through Pressure-Transient Analysis
       Y. Wang, Pennsylvania State University; S. Cheng, University of Petroleum China Beijing; K. Zhang, Shengli Oilfield; Y. He, Texas A&M University; J. Qin, University of Petroleum China Beijing; L. Luo, China University of Petroleum - Beijing; H. Yu, University of Petroleum China Beijing

Alternate

190268  CO2-EOR Development Guidelines for Brown Field Residual Oil Zones in A Fluvial Sandstone

190227  Characterization of Gas Swept-Zone Evolution Using Pressure Pulse Testing
        M. Shakiba, The University of Texas At Austin; S. Hosseini, Bureau of Economic Geology
09 Polymer
Room 3
Matthew Balhoff, The University of Texas At Austin
Arne Skauge, Ctr for Integrated Petr Research

1330  190159  Successful Field Trial of a Novel Reservoir-Triggered Polymer: Results, Interpretation, and Simulation
B. Rashid, J. Stapley, D. Chappell, BP Exploration; W. Andrews, M. Kiani, TIORCO; P.J. Clifford, BP Exploration

1400  190321  Beneficial Relative Permeabilities for Polymer Flooding
R.S. Seright, New Mexico Inst-Mining & Tech; N. Lerner, A. Nguyen, J. Sabid, R. Tochor, Cona Resources LTD

1430  190293  Universal Viscosifying Behavior Of Acrylamide-based Polymers Used In Eor - Application For Qa/qc, Viscosity Predictions And Field Characterization
S. Jouenne, B. Levache, M. Questel, M. Joly, G. Heurteux, C. Hourcq, TOTAL E&P

1530  190216  Chemical EOR Under Harsh Conditions: A Viable Commercial Solution
M. Kadhum, Cargill, Inc.; T. Jensen, Cargill, Inc; B. Kozlowicz, E.S. Sumner, J. Malsam, R. Ravikiran, Cargill Inc.

1600  190217  Conditioning Polymer Solutions for Successful Transport in Tight Reservoir Rocks

1630  190184  Sulfonated Polyacrylamides - Evaluation Of Long Term Stability By Accelerated Aging At Elevated Temperature
L. Nurmi, Kemira; K. Sandengen, Statoil; S. Hanski, Kemira; P. Molesworth, SINTEF Materials and Chemistry

Alternate

190328  Experimental Investigation of Cross-flow in Stratified Reservoirs During Polymer Flooding
M.H. Alshawaf, S. Krevor, A.H. Muggeridge, Imperial College London

190200  A New Thermally Stable Synthetic Polymer for Harsh Conditions of Middle East Reservoirs: Part II. NMR and Size Exclusion Chromatography to Assess Chemical and Structural Changes During Thermal Stability Tests
S. Jouenne, D.C. Morel, G. Bourdarot, TOTAL E&P; L. RODRIGUEZ, B. GRASSL, IPREM; S. Antignard, B. Giovannetti, G. Dupuis, N. Gaillard, SNF Floerger; A. Zaitoun, POWELTEC
**10 Gas Injection Process I**

**Room 4**

Samad Fassihi, BHP Billiton
Bor Jier Ben Shiau, University of Oklahoma

1330 190255 Coupled Capillary Pressure and Relative Permeability Using an Equation-of-State Approach
L. Li, The Pennsylvania State University; R.T. Johns, Pennsylvania State University

1400 190241 High Pressure Diffusion Study - Laboratory and History Match Results
T. Yang, N. Cheng, O.S. Hustad, G.H. Grinestaff, G. Saigal, Statoil ASA

B.A. Alkhazmi, Centre for Enhanced Oil Recovery and CO2 Solutions, Heriot-Watt University, Edinburgh, UK; M. Sohrabi, S. Farzaneh, Heriot-Watt University

1530 190269 A New Way Of Compositional Simulation Without Phase Labeling
S. Khorsandi, L. Li, R.T. Johns, Pennsylvania State University

1600 190193 Waterflood Forecasting for More Accurate EOR Performance Evaluation
S. Behzadi, Occidental E&P Co.; D.W. Hampton, OXY USA Inc.

1630 190183 The Impact of Gas Gravity Drainage on Operating Pressure in a Miscible Flood
I. Adel Abdelraouf, Texas A&M University (PE DEPT); D.S. Schechter, Texas A&M University

**Alternate**

190294 Viscous Fingering in Heterogenous Reservoirs With Long Aspect Ratios
S. Abdul Hamid, A.H. Muggeridge, Imperial College London

190303 Best Practices for Laboratory Evaluation of Immiscible WAG
Y.C. Araujo De Itriago, SGS North America Inc.; M. Araujo, Consultant; J. Molinaris, SGS North America

**11 Field Case Histories I**

**Room 5**

Edward Behm, Oxy Oil & Gas Corp
Betty Felber, Consultant

1330 190326 Development of a Field Scale Polymer Project in Argentina
A. Hryc, F. Hochenfellner, R. Ortiz Best, S. Maler, P. Freedman, Pluspetrol SA

1400 190175 Results of the UK Captain Field Interwell EOR Pilot
A. Poulsen, Chevron Upstream Europe; V. Dwarakanath, A. Jackson, Chevron Corporation; N.H. Ruby, Chevron Upstream Europe; S. Thach, Chevron Corporation; G.M. Shook, SPE
Implementing Field Pilot Project for Selective Polymer Injection in Different Reservoirs
L. Del Pozo, W. Daparo, CAPSA; G. Fernández, Tassaroli SA; J. Carbonetti, Tassaroli

Polymer Flood Field Implementation - Pattern Configuration and Horizontal versus Vertical Wells
M. Sieberer, T. Clemens, J. Peisker, S. Ofori, OMV Upstream

Design, History Matching and Utility of a Simulation Model for a Polymer Pilot
A. Thompson, L.A. Martino, S. Gandi, YPF SA

EOR Polymer Selection in South of Oman fields - An Integrated workflow from Lab to field
T.J. Al-aulaqi, Petroleum Development Oman; R. Al-Mamari, A. Mansour, M. Souah, Sultan Qaboos University

Upscaling the Non-Newtonian Flow Behaviour of the Polysaccharide Schizophyllan- Field Case Study in Northern Germany
D.C. Raharja, Clausthal University of Technology; D. Prasad, C. Mittelbach, A. Behr, Wintershall Holding GmbH; R.E. Hincapie, Clausthal University of Technology

Evaluation of Polymer Flooding Performance using Water-Polymer Interference Factor for an Offshore Oilfield in Bohai Gulf: A Case Study
G. Yang, X. Li, University of Kansas

Tuesday, 17 April 2018, 0830–1200
12 Low Salinity
Room 1
Vladimir Alvarado, University of Wyoming
Varadarajan Dwarakanath, Chevron

Low-Salinity Per-Pattern Flood Management

Effect of Low Salinity Waterflooding on the Chemistry of the Produced Oil

Novel Insights Into Low Salinity Water Flooding Enhanced Oil Recovery in Sandstone With/Without Clays
H. Alsaedi, Missouri University of Science and Technology/ Missan Oil Company; P.V. Brady, Sandia National Laboratories; R.E. Flori, P. Heidari, Missouri University of Science & Tech

Alternate
Effect of Low Salinity Waterflooding on Sweep Efficiency in Multilayered Clay-Rich Sandstone Reservoirs
S.S. Abdelmoneim, Texas A & M University; H.A. Nasr-El-Din, Texas A&M University

13 Reservoir Characterization/Simulation I
Room 2
Mark Wilkins, Devon Energy Production Co. LP
Marco Thiele, Streamsim Technologies, Inc.

0830  190317  Versatile DNA-based Particle Tracers For Oil Reservoir Monitoring
G. Mikutis, M. Puddu, Haelixa; M. Curren, D. Parmenter, Clariant Corporation; A. Kaiser, Clariant Oil Services

0900  190324  Unstable Waterflood Performance Diagnostic Analysis Method
E. Tillero, J.L. Mogollon, D. Gomez, Halliburton

0930  190300  An Integrated Flow-Geomechanical Analysis for Gas Mobility Control Technique during Coupled CO2 EOR and Storage in Cranfield
X. Lu, M. Lotfollahi, B. Ganis, The University of Texas At Austin; B. Min, Ewha Womans University; D.A. DiCarlo, M.F. Wheeler, The University of Texas At Austin

1030  190310  Relative permeability prediction from In Situ Imaged Fluid Distributions in mixed wet core at the Pore Scale
s. zou, University of New South Wales, Sydney, Australia; F. Hussain, University of New South Wales; J. Arns, University of New South Wales, Sydney, Australia; C.H. Arns, University of New South Wales

1100  190320  Suppressing Frontal Instabilities and Stabilizing Miscible Displacements with Time-Dependent Rates at Nearly Zero Additional Costs
Q. Yuan, F. Zeng, University of Regina; K.D. Knorr, M. Imran, Saskatchewan Research Council

1130  190316  Assessing Productivity Impairment of Surfactant-Polymer EOR Using Laboratory and Field Data
M. Izadi, S.E. Vicente, J.F. Zapata Arango, C. Chaparro, J.A. Jimenez Gomez, Ecopetrol SA; H. Kazemi, Colorado School of Mines

Alternate

190307  Role of Aromatic Fraction of Crude Oils on In-Situ Combustion Performance
N.B. Ismail, Texas A&M University; E. Seber, PennState University; B. Hascakir, Texas A&M University

190329  Dynamic Field Rheology, Filterability and Injectivity Characterization using a Portable Measurement Unit
D.R. Espinosa, Chevron Corporation; D. Walker, D. Alexis, Chevron ETC; V. Dwarakanath, A. Jackson, Chevron Corporation; D. Kim, H. Linnemeyer, Chevron ETC; T. Malik, Chevron Corporation; D. McKilligan, P. New, A. Poulsen, Chevron Upstream Europe; G.A. Winslow, Chevron Corporation

Boosting Oil Recovery in Unconventional Resources Utilizing Wettability Altering Agents: Successful Translation from Laboratory to Field
M. Kazempour, M. Kiani, D.T. Nguyen, M. Salehi, M. Lantz, Nalco Champion, an Ecolab Company; R. Longoria, J. Husebø, Statoil

EOR Survey in China-Part 1
H. Guo, China University of Petroleum, Beijing; F. Wang, China University of Petroleum, Beijing; R. Ma, Y. Li, D. Kong, China University of Petroleum, Beijing

Surfactant Pre-floods During CO2 Foam for Integrated Enhanced Oil Recovery in Fractured Oil-Wet Carbonates

Modeling Polymer Enhanced Foam Flow In Porous Media Using An Improved Population-balance Foam Model
H. Luo, K. Ma, K. Mateen, Total E&P USA, Inc.; G. Ren, Total E&P USA; G. Bourdarot, Abu Dhabi Marine Operating Co.; D.C. Morel, Total SA

An Investigation of Retention and Unusually High Apparent Viscosity of Hydrophobically Associative Polymer in Porous Media
G. Zhang, New Mexico Petroleum Recovery Research Center; J. Yu, Z. Chen, New Mexico Petroleum Recovery Research Center; I. Kurnia, Petroleum Recovery Research Center; X. Han, New Mexico Petroleum Recovery Research Center

Testing The Resilience Of The Rod-like Biopolymer Schizophyllan To Various Types Of Mechanical Stressing
G. Incera Garrido, Wintershall Holding GmbH; F. Lehr, BASF SE; S. Mukherjee, D. Prasad, Wintershall Holding GmbH; P. Aditama, Wintershall Holdings GmbH; S. Reimann, Wintershall Holding GmbH; M. Ranft, BASF SE
Preliminary Assessment Of A Polymer Flood Application To Improve Extra Heavy Oil Recovery At The Orinoco Basin. Petrocedeño, Venezuela
E.M. Vasquez, Petroleos de Venezuela S.A.; A.E. RAMIREZ, PDVSA PETROCEDEÑO; N.M. Reyes, Petroleos de Venezuela S.A.; R. Alvarez, PDVSA PETROCEDEÑO

15 WAG - State of the Art
Room 4
Jacqueline Roueche, Lynxnet LLC
David Smith, ConocoPhillips Co
0830  -null- Water and Gas Injectivity: How do they Differ and Why? - Does Field Data Confirm Lab Data?  
M.A. Linroth, Kinder Morgan Inc.
0830  -null- WAG Flood Surveillance - Data Monitoring and Collection: What is critical to Collect? - How should you use the Data?  
E. Mastny, BP
0830  -null- Facilities Considerations: What are the Key Attributes of Designing a Good Facility for a WAG Operation?  
R.K. Wackowski, Wackowski Consulting LLC
0830  -null- Well Treatments for Inflow Performance: How is Stimulation Used in a WAG Flood? Should we Focus on Injectors or Producers?  
D. D'Sousa, Independent
0830  -null- Conformance Control: How and When do you use Existing Wellbore Interventions vs. Pattern Reconfiguration, Infill Drilling and/or Pattern Production Balancing?  
D.D. Smith, ConocoPhillips Co
0830  -null- Application of Simulation and Dimensionless Curves: When is it more Appropriate to use Full Stimulation vs. Pattern Dimensionless Type Curves?  
D.W. Hampton, OXY USA Inc.

16 Field Case Histories II
Room 5
Sunil Kokal, Saudi Aramco PE&D EXPEC ARC
David Levitt, Abu Dhabi Marine Operating Co.
0830  190248 Miscible Hydrocarbon GOGD Pilot in the Yates Field Unit  
R. Valdez, S.P. Pennell, A. Cheng, T. Farley, P.A. Boring, Kinder Morgan CO2 Co. LP
0900  190312 CO2 Foam Field Pilot Test in Sandstone Reservoir: Post Pilot Analysis  
P.D. Patil, T. Knight, Dow Chemical Co.; A. Katiyar, The Dow Chemical Co Ltd;  
P. Vanderwal, Dow Chemical Co.; J. Scherlin, Fleur De Lis Energy LLC; P.M. Rozowski, Dow Oil & Gas; M. Ibrahim, O.M. Gurpinar, Schlumberger; Q.P. Nguyen, The University of Texas At Austin
0930  190308  Pilot Scale CO2 EOR at Wellington Filed in South Central Kansas
Y. Holubnyak, W.L. Watney, J. Rush, Kansas Geological Survey; D.G. Wreath, Berexco LLC; F. Fazelandali, University of Kansas; J. Hollenbach, T. Bidgoli, Kansas Geological Survey

1030  190173  Cyclic Steam Stimulation Enhanced with Nitrogen
E.M. Trigos, Mansarovar Energy Colombia Ltd; E. Lozano, Mansarovar Energy; A. Jimenez, Ecopetrol S.A.

1100  190230  Screening for EOR and Estimating Potential Incremental Oil Recovery on the Norwegian Continental Shelf
P.C. Smalley, A.H. Muggeridge, Imperial College London; M. Dalland, O.S. Helvig, E.J. Hognesen, M. Hetland, A. Østhus, Norwegian Petroleum Directorate

1130  190157  Optimal Design Coupling with Uncertainty Risk Management of CO2 Flood Operations at the Farnsworth Unit, Texas
B. Yuan, University of Oklahoma; T. Gao, R. Klenner, Baker Hughes, a GE Company Oil & Gas Technology Center; N. Iyer, General Electric Co.; S.H. Azzaro, S. Mukhopadhyay, Baker Hughes, a GE Company Oil & Gas Technology Center

Alternate

190261  Interactions of Cold Lake bitumen with CO2, propane and butane: An experimental and modelling study
S. Eghbali, H. Dehghanpour, University of Alberta; J.M. Dragani, X. Zhang, Cenovus Energy Inc

Tuesday, 17 April 2018, 1330–1700
17 Viscous and Heavy Oil II
Room 1
Paul Bondor, Bontech
Felix Ascanio, Shell Intl. E&P BV

1330  190219  Creation of Insitu EOR Foams by the Injection of Surfactant in Gas Dispersions - Lab confirmation and Field Application.
A.A. Ocampo-florez, Equion Energia Limited; A. Restrepo, EQUION ENERGIA LTD; S.H. Lopera, J.M. Mejia, Universidad Nacional De Colombia

1400  190278  A Continuous and Robust Viscosity Model Using an Equation-Of-State for Microemulsion Phase Behavior
P. Khodaparast, R.T. Johns, Pennsylvania State University

1430  190311  The Onset of Spontaneous Imbibition: How Irregular Fronts Influence Imbibition Rate and Scaling Groups
T.L. Foyen, Dept. of Physics and Technology, University of Bergen; B. Brattekas, The National IOR Centre of Norway, Dept. of Petroleum Engineering, University of Stavanger; M.A. Ferno, Dept. of Physics and Technology, University of Bergen
Impact of Brine Chemistry on Oil Recovery: Corefloods and Recovery Mechanisms
B. Aminzadeh, G. Tang, Chevron ETC; M. Villegas, Chevron GOM; M. Valjak, A. Inouye, Chevron Corporation; J. Kamath, Chevron ETC

Extension Of HlD-NAC Flash Calculation Algorithm To Multicomponent Microemulsion Mixtures
S. Khorsandi, R.T. Johns, Pennsylvania State University

In-depth experimental studies of Low-Tension Gas (LTG) in High Salinity and High Temperature sandstone reservoir
G. Ren, Total E&P Research & Technology USA LLC; M.N. Nguyen, Ho Chi Minh City University of Technology; K. Mateen, K. Ma, Total E&P USA, Inc.; G. Bourdarot, Abu Dhabi Marine Operating Co.; D.C. Morel, Total SA; Q.P. Nguyen, The University of Texas At Austin

Alternate

Exploring the Upper Limit of Oil Viscosity for Polymer Flood in Heavy Oil
E. Delamaide, IFP Technologies Canada Inc.

EOR Potential in the Post Steam Injection Era: Current and Future Trends
D. Xiaohu, H. Liu, China University of Petroleum-Beijing; Z. Chen, University of Calgary

18 Reservoir Characterization/Simulation II
Room 2
Marco Thiele, Streamsim Technologies, Inc.
Stephen Guillot, Denbury Resources Inc.

Simulation of Condensate Blockage in Tight Reservoirs using Rigorous Petrophysical and Thermodynamic Models to Account for Capillary Pressure
S.S. Neshat, R. Okuno, G.A. Pope, The University of Texas At Austin

Estimation of Capillary Pressure and Relative Permeability from Downhole Advanced Wireline Measurements for Waterflooding Design
A. Hadibeik Nishaboori, Halliburton; M.A. Al-rushaid, H. Al-Rashidi, M. Ahmad, Kuwait Oil Company; M. Azari, M. Kalawina, S. Ramakrishna, A. Daik, Halliburton

Effect of Nano-Scale Pore Size Distribution on Fluid Phase Behavior of Gas IOR in Shale Reservoirs
S. Luo, H. Nasrabadi, J. Lutkenhaus, Texas A&M University

High Throughput Coreflood Experimentation As A Tool For EOR Project Design.
S. Youssef, M. Mascle, IFPEN; O. Vizika, IFP Energies Nouvelles
Co-current Spontaneous Imbibition in Porous Media with the Dynamics of Viscous Coupling and Capillary Backpressure
P. Andersen, University of Stavanger, The National IOR Center of Norway; Y. Qiao, University of Stavanger; D.C. Standnes, Statoil ASA; S. Evje, University of Stavanger, The National IOR Center of Norway

X-Ray Micro-Focus Monitoring of Water Alternating Gas Injection in Heterogeneous Formations
J.S. Luo, X. Chen, D. Espinoza, Q.P. Nguyen, University of Texas At Austin

A New Mathematical Model of Solvent-SAGD Process- Importance of Heat and Mass Transfer
Z. Zargar, University of Calgary; S.S. Farouq Ali, H.O.R. Tech Ltd

A. Perez-Perez, CHLOE (ADERA); M. Mujica Chacin, ADERA/CHLOE; I. Bogdanov, CHLOE (ADERA); A. BRISSET, Centre Scientifique et Technique Jean Féger (CSTJF)

Results of Alkaline-Surfactant-Polymer flooding Pilot at West Salym Field

Alkaline Surfactant Polymer (ASP) Process for Shaley Formation with Pyrite
G.J. Hirasaki, Rice University; D. Lei, East China University of Petroleum; M.J. Puerto, C. Miller, Rice University; S. Shaochun, SINOPEC

Novel Surfactants without Hydrocarbon Chains for Chemical EOR
K.K. Mohanty, H. Sharma, K.K. Panthi, P. Ghosh, U.P. Weerasooriya, The University of Texas At Austin

Development of a Unique ASP Formulation for Basin-Wide Deployment
1600 190187 Extremely Low Surfactant Retention in ASP Floods of Limestones
M. Maubert, G.A. Pope, P.J. Liyanage, K.N. Upamali, L.Y. Chang, M. Tagavifar,
The University of Texas At Austin; G. Ren, Total E&P USA; K. Mateen, K. Ma,
Total E&P USA, Inc.; G. Bourdarot, Total; D.C. Morel, Total SA

1630 190169 Simulation Study of Scale Formation During ASP Flood in a Large Pilot
Carbonate Field in the Middle East
A. Sanaei, The University of Texas At Austin; M. Delshad, Ultimate EOR Services;
K. Sepehrnoori, The University of Texas At Austin

Alternate

190243 Ammonia as Alkali for High Acid Number Oils
J.G. Southwick, Royal Dutch/Shell Group; M. Brewer, S. Pieterse, Shell Global
Solutions N.V.; E. Van Den Pol, Shell Global Solutions International BV

190271 ASP Flood after a Polymer Flood vs. ASP Flood after a Water Flood
K.K. Mohanty, A.S. Aitkulov, The University of Texas at Austin

20 Gas Injection Processes II
Room 4
Birol Dindoruk, Shell International E&P Co.
Samad Fassihi, BHP Billiton

1330 190322 Measuring Relative Permeability in Cores at Reservoir Pressures Using a Gravity
Drainage Method
L.M. Churchwell, University of Texas At Austin; D.A. DiCarlo, The University of
Texas At Austin

1400 190285 Immiscible Nitrogen Flooding in Bentheimer Sandstones: Comparing Gas
Injection Schemes for Enhanced Oil Recovery.
M. Janssen, F. Azimi, P.L. Zitha, Delft University of Technology

1430 190192 In Situ Carbon Dioxide Generation for Improved Recovery: Part II. Concentrated
Urea Solutions
S. Wang, B. Shiau, J. Harwell, University of Oklahoma

1530 190158 Comprehensive Review of Worldwide CO2 Immiscible Flooding
N. Zhang, M. Wei, B. Bai, J. Pu, Missouri University of Science & Tech

1600 190257 High Pressure Gas EOR PVT Experimental Programs: Challenges in
Measurements and Data Interpretations
H. Alboudwarej, Chevron ETC; J. Sheffield, Chevron ETC, Retired; M. Srivastava,

1630 190288 Impact of Miscibility Enhancing Additives on the Flooding Scheme in CO2 EOR
Processes
R. Rommerskirchen, Sasol Germany GmbH; H. Bilgili, J. Fischer, T. Sottmann,
University of Stuttgart

Alternate

190273 The Analysis of Compositional Effects on Global Flow Regimes in CO2 Near
Miscible Displacements in Heterogeneous Systems
G. Wang, G.E. Pickup, K.S. Sorbie, E.J. Mackay, Heriot-Watt University
Enhancement of Vapor Oil Gravity Drainage (VOGD) In Fractured Reservoirs
B. Tang, N. Anand, B. Nguyen, The University of Texas At Austin; C. Sie, the; M. Verlaan, Shell; O. Castellanos Díaz, Canadian Natural Resources Ltd.; Q.P. Nguyen, The University of Texas At Austin

Tuesday, 17 April 2018, 1330–1500
21 Field Monitoring Surveillance
Room 5
Stephen Guillot, Denbury Resources Inc.
Dane Cantwell, KA Energy Partners
1330  190204  An Integrated CO2 Foam EOR Pilot Program with Combined CCUS in an Onshore Texas Heterogeneous Carbonate Field
Z. Alcorn, S.B. Fredriksen, University of Bergen; M. Sharma, University of Stavanger; A.U. Rognmo, T. Føyen, M. Fernø, A. Graue, University of Bergen

1400  190317  Versatile DNA-based Particle Tracers For Oil Reservoir Monitoring
G. Mikutis, M. Puddu, Haelixa; M. Curren, D. Parmenter, Clariant Corporation; A. Kaiser, Clariant Oil Services

1430  190314  Surveillance Using Dimensionless Variables in the Mature Oil Field La Cira Infantas
L.K. Ramirez, Occidental de Colombia Inc.; V. Morales, Occidental de Colombia

Alternate
190170  Zone Identification and Oil Saturation Prediction in a Waterflooded Field: Residual Oil Zone, East Seminole Field, Texas, Permian Basin
J.N. Roueche, Lynxnet LLC; C.O. Karacan, USGS

Tuesday, 17 April 2018, 1530–1700
22 New or Combined Technologies
Room 5
Carmen Hinds, Chevron Africa & Latin America E&P
Sunil Kokal, Saudi Aramco PE&D EXPEC ARC
1530  190235  Oil Recovery by Alkaline-Surfactant-Foam (ASF) Flooding: Effect of Foam Quality on Oil Bank Propagation
M. Janssen, P.L. Zitha, Delft University of Technology; R. Pilus, Universiti Teknologi Petronas

1600  190254  A New Chemical EOR Surfactant Polymer Flood Model
C. Huang, G.S. Shiralkar, S. Abbas, G. Li, ConocoPhillips Co

1630  190163  Hybrid Process of Gas Injection and Downhole Water Sink-Assisted Gravity Drainage (GDWS-AGD) to Enhance Oil Recovery in Reservoirs with Infinite Edge and/or Bottom Water Drive
W.J. Al-Mudhafer, Louisiana State University (Petr. Eng. Dept)

Alternate
190153  New Predictive Structure-Property Model for Chemical EOR
L.Y. Chang, The University of Texas At Austin; S. Jang, University of Texas At
Austin/Cmssm; G.A. Pope, The University of Texas At Austin

Wednesday, 18 April 2018, 0830–1200
23 Viscous and Heavy Oil III
Room 1
Paul Bondor, Bontech
Felix Ascanio, Shell Intl. E&P BV

0830  190265  Transitioning a Complex Thermal Field in South Oman from Cyclic Steam
Stimulation to Steam Drive
A. AlWazeer, PDO; T.J. Al-aulaqi, Petroleum Development Oman

0900  190196  Modeling and Optimization of CoSolvent Assisted Chemical Flooding for
Enhanced Oil Recovery in Heavy Oil Reservoirs
N.T. Nguyen, University of Calgary; C.T. Dang, L.X. Nghiem, Computer Modelling
Group Ltd.; Z. Chen, University of Calgary; C. Yang, Computer Modelling Group
Ltd.

0930  190224  An Experimental Study of Emulsion Flow in Alkaline Solvent Coinjection with
Steam for Heavy-Oil/Bitumen Recovery
K. Sheng, F.J. Arguelles, K. Baek, R. Okuno, The University of Texas At Austin

1030  190194  Polymer Oil Recovery Experiments in Different Geometries for Improved
Upscaling of Viscous Oil Reservoirs
V. Lee, S. Doorwar, V. Dwarakanath, T. Malik, W.S. Slaughter, Chevron
Corporation

1100  190270  Coupling Heat and Mass Transfer in Oil Sands for Expanding-Solvent Steam
Assisted Gravity Drainage
H. Liu, L. Cheng, S. Huang, China University of Petroleum-Beijing; J. Xu, The
University of Tulsa

1130  190263  Laboratory Evaluation of Novel Surfactant for Foam Assisted Steam EOR
method to Improve Conformance Control for Field Applications
B. MUKHERJEE, THE DOW CHEMICAL; P.D. Patil, Dow Chemical Co.; M. GAO, W.
MIAO, THE DOW CHEMICAL COMPANY; P.M. Rozowski, Dow Oil & Gas

Alternate

190186  Application of multi-well steam injection and CO2 technology in Heavy Oil
Production, Liaohe Oilfield
F. Jin, CNPC Drilling Research Institute

24 Unconventional Oil EOR II
Room 2
Edward Behm, Oxy Oil & Gas Corp
William O’Brien, Nitec, LLC
<table>
<thead>
<tr>
<th>Time</th>
<th>Code</th>
<th>Title</th>
<th>Authors/Institutions</th>
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<tbody>
<tr>
<td>0900</td>
<td>190279</td>
<td>Performance of Air- vs. CO2-Injection in a Tight, Light Oil Reservoir: A Laboratory Study</td>
<td>W.J. O’Brien, Nitec, LLC; R.G. Moore, S.A. Mehta, M.G. Ursenbach, University of Calgary</td>
</tr>
<tr>
<td>0930</td>
<td>190284</td>
<td>An Investigation on the Feasibility of Combined Refracturing of Horizontal Wells and Huff and Puff Gas Injection for Improving Oil Recovery from Shale Petroleum Reservoirs</td>
<td>A.R. Fragoso Amaya, University of Calgary; K. Selvan, Nexen Inc.; R. Aguilera, University of Calgary</td>
</tr>
<tr>
<td>1030</td>
<td>190221</td>
<td>Bakken IOR Model for a Pilot Injection Project</td>
<td>B. Hoffman, Montana Tech</td>
</tr>
<tr>
<td>1100</td>
<td>190185</td>
<td>Nuclear Magnetic Resonance Study on Oil Mobilization in the Shale Exposed to CO2</td>
<td>H. Wang, Z. Lun, C. Lv, D. Lang, M. Luo, Q. Zhao, C. Zhao, Y. Qi, W. Pan, Sinopec</td>
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<tr>
<td>1130</td>
<td>190260</td>
<td>Improving the Performance of EOR in Unconventional Oil Reservoirs Using Advanced Completion Technology</td>
<td>M.R. Konopczynski, Tendeka Inc</td>
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<td>Alternate</td>
<td>190238</td>
<td>Factors Affecting Interfacial Properties and Minimum Miscibility Pressures in Nanopores</td>
<td>K. Zhang, N. Jia, University of Regina</td>
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<tr>
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<td>190289</td>
<td>Steam Injection in Tight Oil Reservoir</td>
<td>T.S. Ross, H. Rahnema, C. Nwachukwu, New Mexico Inst-Mining &amp; Tech; O. Alebiosu, ConocoPhillips Co</td>
</tr>
</tbody>
</table>

**25 Chemical EOR III**

**Room 3**

Andrew Worthen, Exponent, Inc.
Torsten Clemens, OMV Exploration & Production GmbH

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<th>Time</th>
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<tr>
<td>0830</td>
<td>190220</td>
<td>The Generation, Stabilization and Immigration Rules of Crude Oil Emulsion during the Process of Amphiphilic Polymer Flooding</td>
<td>Y. Lu, W. Kang, Z. Li, H. Feng, J. Jiang, H. Wu, China University of Petroleum (Beijing)</td>
</tr>
<tr>
<td>0900</td>
<td>190272</td>
<td>An Advanced ElectroChemical System for EOR Produced Water Desalination and Reduced Polymer Consumption</td>
<td>M. Man, Saltworks Technologies Inc; B. Sparrow, X. Yin, Saltworks Technologies Inc.</td>
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<td>0930</td>
<td>190203</td>
<td>Effect of Low Salinity on Polymer Solution Characteristics and Rock-Fluid Interactions</td>
<td>E. Unsal, A.B. ten Berge, D.A. Wever, Shell Global Solutions International BV</td>
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<tr>
<td>1030</td>
<td>190298</td>
<td>A Computational Investigation of Seismic Wave Focusing as a Novel Means to Fracture Shale Reservoirs</td>
<td>Y. Jing, R. Younis, University of Tulsa</td>
</tr>
<tr>
<td>1100</td>
<td>190262</td>
<td>Scaling Analysis of the Impacts of Non-Isothermal Alkaline Hydrolysis on Polymer Flooding</td>
<td>M. Khelifa, Imperial College; A.H. Muggeridge, Imperial College London</td>
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<td>1130</td>
<td>190225</td>
<td>An Experimental Investigation of Polymer Mechanical Degradation at cm and m Scale</td>
<td>S. Asen, A. Stavland, D. Strand, IRIS AS</td>
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</table>

Alternate

| 190258 | A Systematic Study of the Effect of Plugging on Polymer Flooding in W Offshore Oilfield of Bohai Bay | B. Li, CNOOC Institute; W. Yu, Texas A & M University; X. Kang, Z. Jian, CNOOC Institute |

26 Novel and Nanotech
Room 4

Charles Hammond, Flotek Chemistry LLC
Sunil Kokal, Saudi Aramco PE&D EXPEC ARC

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<th>Time</th>
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<tr>
<td>0830</td>
<td>190281</td>
<td>New Atomic to Molecular Scale Insights on SmartWater Flooding Mechanisms in Carbonates</td>
<td>S. Chen, University of California at Santa Barbara; Y. Kaufman, Ben Gurion University of the Negev, Sede Boqer Campus; K. Kristiansen, D. Seo, A.M. Schrader, University of California at Santa Barbara; M.B. Alotaibi, Saudi Aramco PE&amp;D; H.A. Dobbs, N.A. Cadirov, J. Boles, University of California at Santa Barbara; S.C. Ayirala, Saudi Aramco PE&amp;D; J. Israelachvili, University of California at Santa Barbara; A.A. Yousef, Saudi Aramco PE&amp;D</td>
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<td>0900</td>
<td>190283</td>
<td>Mechanistic Study of a &quot;Green&quot; Nano-suspension in Enhanced Oil Recovery (EOR) using Macro and Micro Methods</td>
<td>B. Wei, Q. Li, J. Ning, Southwest Petroleum University; Y. Li, Missouri University of Science and Technology; W. Pu, F. Jin, Southwest Petroleum University; L. Kong, Shengli Oilfield, Sinopec</td>
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<td>0930</td>
<td>190252</td>
<td>Novel Switchable Alkyl-amine Surfactants for CO2 Emulsion</td>
<td>L. Cui, A. Klimenko, F. Dubos, M. Lagorse, M. Bourrel, Total CSTJF</td>
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<td>1030</td>
<td>190167</td>
<td>Novel Techniques for Interpreting Tracer Tests in Naturally Fractured Reservoirs</td>
<td>R.M. Dean, Chevron ETC; V. Dwarakanath, Chevron Corporation</td>
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<td>1100</td>
<td>190171</td>
<td>A Novel Experimental Approach for Accurate Evaluation of Chemical EOR Processes in Tight Reservoir Rocks</td>
<td>S. Gautier, IFPEN; E. Chevallier, SOLVAY; T. Chevalier, L. Labaume, IFPEN; M. Chabert, SOLVAY</td>
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<tr>
<td>1130</td>
<td>190177</td>
<td>Surfactant Based EOR for Tight Oil Unconventional Reservoirs through Wettability Alteration: Novel Surfactant Formulations and their Efficacy to Induce Spontaneous Imbibition</td>
<td>P.D. Patil, N. Rohilla, Dow Chemical Co.; W. Yu, Dow Oil &amp; Gas; A. Katiyar, The Dow Chemical Co Ltd; S. Falcone, Dow Chemicals; P.M. Rozowski, Dow Oil &amp; Gas</td>
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<td>190325</td>
<td></td>
<td>Compositional Simulation of CO2-EOR in Shale Oil Reservoirs with Nanopore Confinement and Complex Fracture Geometries</td>
<td>W. Yu, Texas A &amp; M University; A. Varavei, K. Sepehrnoori, The University of Texas At Austin</td>
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<tr>
<td>190212</td>
<td></td>
<td>Nanoparticle-enhanced Alkaline Surfactant Flood to Unlock Heavy Oil</td>
<td>D. Arab, A. Kantzas, University of Calgary; S.L. Bryant, The University of Texas At Austin</td>
</tr>
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</table>

**27 Field Case Histories III**

**Room 5**

Eric Delamaide, IFP Technologies Canada Inc.
Elio Dean, Colorado School of Mines

<table>
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<th>Time</th>
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<tbody>
<tr>
<td>0830</td>
<td>190198</td>
<td>Application of Interwell Partitioning Tracers for Evaluating the Effectiveness of Chemical EOR in the Marmul Field in Oman: A Case Study</td>
<td>M. Chatterjee, S. Pugla, P. Hewitt, J.D. Spencer, Tracerco; S. Guntupalli, Petroleum Development Oman; Y. Svec, Shell International E&amp;P Co.</td>
</tr>
<tr>
<td>1030</td>
<td>190202</td>
<td>Field Demonstration Of A Low-retention Asp Strategy For Carbonate Reservoirs In Kuwait</td>
<td>R. Fortenberry, P.T. Suniga, M. Delshad, Ultimate EOR Services; D.S. Kamal, M. Al Murayri, Kuwait Oil Company; G.A. Pope, The University of Texas At Austin</td>
</tr>
</tbody>
</table>
A Successful Polymer Flood Pilot at Palogrande-Cebu, a Low Permeability Reservoir in the Upper Magdalena Valley, Colombia

Results from a Phased Piloting Approach in First Eocene Reservoir of Wafra: Reducing Uncertainties in Carbonate Steamflood Development
D.L. Barge, J.M. Brown, R. Kumar, C.S. Lolley, R.H. Bartlema, A. Saleh, Chevron Corp

Alternate
Improved oil Recovery (IOR) and Chemical Enhanced Oil Recovery (CEOR) Pilots Look back and health check Methodology in Colombia
C.A. Patino, Ecopetrol SA; G.S. Garcia, C.C. Hinds, Ecopetrol

The First Successful SWCT Tests to Evaluate an ASP Process in the Largest Mature Oil Field in Argentina

Monday, 16 April 2018, 8:30 - 17:00
28 Poster I
Foyer I
Betty Felber, Consultant
Tony Panqing Gao, GE Global Research

Horizontal Fracturing in a Mature Permian Waterflood: A Case Study
A. Wagia-Alla, R. Roach, J. El-Azzi, Occidental Permian Ltd.

Imaging of In-situ Microemulsion Formation by Micro-Tomography
E. Unsal, Shell Global Solutions International BV; M. Rucker, Imperial College London; S. Berg, N. Brussee, Shell Global Solutions International BV; A. Coorn, Shell Global Solutions International; W. Bartels, Utrecht University; A. Bonnin, Paul Scherrer Institute

Fluoroacrylate Polymers as CO2-soluble Conformance Control Agents
R.M. Enick, E. Beckman, S. Cummings, J. Lee, H. Zaberi, University of Pittsburgh; M. Vasilache, C. Dailey, Special Core Analysis Laboratories Inc.

Systematically Optimized Surfactant Formulation and Injection Design to Reduce Chemical while Maintaining Performance
G. Pinnawala Arachchilage, D. Alexis, D. Kim, A. Davidson, T. Malik, V. Dwarakanath, Chevron Corporation

Successful Water shut-off treatment specially designed for high temperature: Vizcacheras experience
I.N. Vega, M.I. Hernández, A. Campomenosi, YPF Tecnología; D. Moglia, J. Peltier, YPF S.A.
0830  190160  Gravity-Stable Processes for Dipping or Thick Reservoirs  
S. Doorwar, V. Lee, A. Davidson, J. Isbell, T. Malik, V. Dwarakanath, Chevron Corporation

0830  190309  Theoretical Investigation of the Transition from Spontaneous to Forced Imbibition  
L. Deng, M.J. King, Texas A&M University

0830  190249  Evaluating the Effect of Temperature on Surfactant Phase Behavior and Aqueous Stability to Forecast Optimum Salinity at High Temperature  
G. Pinnawala Arachchilage, E.B. Tao, D. Alexis, H. Linnemeyer, T. Malik, V. Dwarakanath, Chevron Corporation

Tuesday, 17 April 2018, 8:30 - 17:00  
29 Poster II  
Foyer I  
Vanessa Nunez, University of Texas at Austin  
Prem Bikkina, Oklahoma State University

0830  190245  Effect of Salinity on Crude Oil/Brine/Rock Interfaces: A Cryo-BIB-SEM Approach to Carbonates Wettability  
A. Gmira, D. Cha, S.M. Al Enezi, A.A. Yousef, Saudi Aramco PE&D

0830  190319  Mechanistic Modeling of Carbonated Waterflooding  
A. Sanaei, A. Varavei, K. Sepehrnoori, The University of Texas At Austin

0830  190282  Pore-to-Core Scale Study of Wettability Alteration by Chemically-Tuned Waterflooding in Oil-Wet Carbonate Rocks  
M.S. Tawfik, Pennsylvania State University; Z. Karpyn, Penn State University

0830  190274  Recent Developments in Hybrid Surfactant-Gas EOR Mechanisms with Advanced Modeling  
H. Lashgari, G.A. Pope, The University of Texas At Austin; M. Delshad, Ultimate EOR Services; K. Sepehrnoori, The University of Texas At Austin

0830  190152  A Novel Coreless Injectivity Technique for Evaluating Formation Damage on Argillaceous Reservoirs  
P. Luo, K.D. Knorr, P.P. Nakutnyy, M.J. Crabtree, Saskatchewan Research Council

0830  190155  Upscaling Laboratory Result of Surfactant-Assisted Spontaneous Imbibition to the field Scale through Scaling Group Analysis, Numerical Simulation, and Discrete Fracture Network Model  
F. Zhang, I.R. Saputra, G. Niu, D.S. Schechter, Texas A&M University

0830  190315  Inter Well Tracer Test Results in the Mature Oil Field La Cira Infantas  
L.K. Ramirez, Occidental de Colombia Inc.; G.M. Shook, Mike Shook & Associates
30 Best of EAGE I
Foyer II
Best of EAGEB10B15
Lanny Schoeling, Kinder Morgan CO2 Co. LP
Eduardo Manrique, PDVSA Intevep

31 Best of EAGE II
Foyer II
Best of EAGE II
Lanny Schoeling, Kinder Morgan CO2 Co. LP
Eduardo Manrique, PDVSA Intevep