

## **RANDALL S. SERIGHT**

New Mexico Petroleum Recovery Research Center  
New Mexico Institute of Mining and Technology/ New Mexico Tech  
801 Leroy Place  
Socorro, New Mexico 87801  
(575) 835-5571 (Office)  
(575) 835-6031 (Fax)  
[seright.randall.s@gmail.com](mailto:seright.randall.s@gmail.com) (E-mail)

Randy Seright heads the Reservoir Sweep Improvement group at the Petroleum Recovery Research Center of New Mexico Tech. His research focuses on developing methods to prevent fluid channeling through reservoirs and to reduce excess water and gas production during oil recovery, especially using polymers and gels. He has extensive interests and experience in improving sweep efficiency during water flooding and chemical flooding. He holds a B.S. degree in Chemical Engineering from Montana State University (Bozeman) and a Ph.D. degree in Chemical Engineering from the University of Wisconsin (Madison). He worked for Exxon Production Research Company for eight years before joining the PRRC. He is a life member of the Society of Petroleum Engineers. He has provided short courses on Polymer Flooding and Water Shutoff in 19 countries. He received the SPE/DOE IOR Pioneer award in 2008 for his work on using polymer and gels to improve oil recovery.

### **Education**

|   |                          |                                   |
|---|--------------------------|-----------------------------------|
| Ph.D., 1978                                   | Chemical<br>Engineering, | University of Wisconsin, Madison. |
| National Science Foundation Fellow, 1975-1978 |                          |                                   |
| B.S., 1975                                    | Chemical<br>Engineering, | Montana State University.         |

### **Professional Experience**

#### **1987 to Present**

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

Title: Senior Engineer and Section Head, Reservoir Sweep Improvement, New Mexico Petroleum Recovery Research Center

#### **1978-1986**

EXXON PRODUCTION RESEARCH COMPANY, Houston, Texas

Title: Group Leader, Polymers and Alkaline Flooding (1980-1986)

### **Professional Organizations**

Society of Petroleum Engineers

Executive Editor, Society of Petroleum Engineers Journal 2015-2018

2008 SPE/DOE IOR Pioneer Award

Co-Chair 2005 SPE Applied Technology Workshop on Chemical Flooding

International Board of Directors representing the Southwest North America Region, 2000-2002

Southwest Regional Service Award (1999)  
Program Chairman of the 1998 SPE/DOE Improved Oil Recovery Symposium  
Chairman of the Distinguished Lecturer Selection Committee (1998-1999)  
Distinguished Lecturer for 1993-1994  
Associate Editor for *SPE Reservoir Engineering* (1990-1996)  
Associate Editor for *SPE Journal* (2008-2021)  
Peer Apart Award  
Outstanding Technical Editor Awards *SPEJ*, *SPEREE*, *SPEPO* [1994, 1995, 2010, 2011, 2013, 2015(2), 2018, 2019, 2020(2), 2021]  
Chairman of 1995 SPE International Symposium on Oilfield Chemistry  
Chairman of 1995 Emerging & Peripheral Technology Technical Committee  
Chairman for the Roswell Section, 1995-1996  
Chairman for the IOR Pioneer Award Committee, 2021-

### **Research Grants and Contracts Awarded**

1. First Ever Field Pilot on Alaska's North Slope to Validate the Use of Polymer Floods for Heavy Oil EOR, DEFE0031606 (2018-2022): \$623,734.78. US DOE (\$498,987.82 DOE, \$124,746.96 New Mexico State matching funds).
2. Saudi Aramco (2018-2019) \$540,000.
3. SNF (2012-2014): \$311,640.
4. Statoil (2012-2015): \$780,200.
5. EnCana (2004-2011): \$505,425.
6. Chevron (2006-2016): \$686,000.
7. CP Kelco (2007): \$80,000.
8. Use of Polymers to Recover Viscous Oil from Unconventional Reservoirs, \$1,517,293.54 (\$1,012,034.79 US DOE, \$ 505,258.75 New Mexico State matching funds) October 2008-September 2011.
9. Use of Polymers to Recover Viscous Oil from Unconventional Reservoirs, \$360,000 (Industrial funds from CP Kelco, SNF Floerger, Statoil, and ConocoPhillips) October 2008-September 2011.
10. Aperture-Tolerant, Chemical-Based Methods to Reduce Channeling, \$1,199,903 (\$799,976 US DOE, \$399,927 New Mexico State matching funds) October 2004-September 2007.
11. Aperture-Tolerant, Chemical-Based Methods to Reduce Channeling, \$180,000 (Industrial funds from ConocoPhillips, ExxonMobil, and Marathon) October 2004-September 2007.
12. Conformance Improvement Using Gels, \$1,839,393 (\$1,226,075 US DOE; \$612,518 New Mexico State matching funds) September 2001-September 2004.
13. Conformance Improvement Using Gels, \$240,000 (Industrial funds from BP, ConocoPhillips, Marathon, PDVSA, Shell and YuganskNIPIneft). September 2001 - September 2004.
14. Using Chemicals to Optimize Conformance Control in Fractured Reservoirs, \$1,420,984 (\$900,000 US DOE, \$420,984 New Mexico State matching funds), October 1998-September 2001.
15. Using Chemicals to Optimize Conformance Control in Fractured Reservoirs, \$540,000 (Industrial funds from British Petroleum, Chevron, Chinese Petroleum Corporation,

- Chinese National Petroleum Corporation, Marathon, Saga, Schlumberger, Shell, and Texaco), October 1998-September 2001.
16. Improved Methods for Water Shutoff, \$1,066,667 (\$800,000 US DOE/BDM-Oklahoma, \$266,667 New Mexico State matching funds), May 1996-September 1998.
  17. Improved Methods for Water and Gas Shutoff, \$500,000 (Industrial funds from ARCO, British Petroleum, Chevron, Chinese Petroleum Corporation, Conoco, Eniricerche (AGIP), Exxon, Halliburton, Marathon, Norsk Hydro, Phillips, Saga, Schlumberger, Shell, Statoil, Texaco, and Unocal), October 1995-September 1998.
  18. Improved Techniques for Fluid Diversion in Oil Recovery, \$1,304,036 (\$604,130 US DOE, \$699,906 New Mexico State matching funds), October 1992-September 1995.
  19. Improved Techniques for Fluid Diversion in Oil Recovery, \$190,000 (Industrial funds from ARCO, British Petroleum, Chevron, Conoco, Exxon, Marathon, Mobil, Phillips, Texaco, and Unocal), May 1993-October 1995. (Industrial consortium formed through the Completion Engineering Association.)
  20. Candidate Selection and Placement Techniques in Water Shutoff Processes, \$240,000 (\$120,000 Industry: ARCO, Chevron, Conoco, Exxon, Marathon, Mobil, Phillips, Unocal; \$120,000 New Mexico State matching funds), May 1992-April 1993.
  21. Fluid Diversion and Sweep Improvement with Chemical Gels in Oil Recovery Processes, \$903,900 (\$420,000 US DOE, \$210,000 NMRDI, \$38,900 NMIMT, \$235,000 Industry: Amoco, Conoco, Elf Aquitaine, Marathon, Mobil, Oryx, Oxy, Phillips, Shell, Texaco), May 1989-April 1992. (Industrial consortium formed through the Reservoir Recovery Forum.)

## Papers and Publications

1. Sagyndikov, M., Seright, R.S., Kudaibergenov, S., and Ogay, E. 2022. Field Demonstration of the Impact of Fractures on HPAM Injectivity, Propagation and Degradation. *SPE Journal* **27**. doi:10.2118/208611-PA.
2. Wang, D., Seright, R.S. 2021. Examination of Literature on Colloidal Dispersion Gels for Oil Recovery. *Petroleum Science* **18**(2021): 1097-1114). doi:10.1016/j.petsci.2021.07.009.
3. Dandekar, A., Bai, B., Barnes, J., Cercone, D., Ciferno, J., Edwards, R., Ning, S., Schulpen, W., Seright, R., Sheets, B., Wang, D., Zhang, Y. 2021. Heavy Oil Polymer EOR in the Challenging Alaskan Arctic - It Works! Paper URTeC 5077 presented at the Unconventional Resources Technology Conference held in Houston, Texas, USA, 26-28 July.
4. Zhao, Y., Yin, S., Seright, R. S., Ning, S., Zhang, Y., & Bai, B. 2021. Enhancing Heavy-Oil-Recovery Efficiency by Combining Low-Salinity-Water and Polymer Flooding. *SPE Journal* **26**(3): 1535–1551. doi:10.2118/204220-PA.
5. Ghosh, P., Ould Metidji, M, Dupuis, G., Wilton, R., Ravikiran, R., Bowers, A., Seright, R. 2021. Pushing the Envelope of Polymer Injectivity in Low Permeability Sandstones. Paper 35 presented at the EAGE IOR 2021 21<sup>st</sup> European Symposium on Improved Oil Recovery. Online Event. 19-22 April.
6. Seright, R. & Brattekas, B. 2021. Water Shutoff and Conformance Improvement: An Introduction. *Petroleum Science* (February 4) 18:450-478. doi: 10.1007/s12182-021-00546-1.
7. Seright, R.S., Wavrik, K.E., Zhang, G. & AlSofi, A.M. 2021. Stability and Behavior in Carbonate Cores for New EOR Polymers at Elevated Temperatures in Hard Saline Brines. *SPE Reservoir Evaluation & Engineering* **24**(1) 1-18. doi:10.2118/200324-PA.
8. Dandekar, A., Bai, B., Barnes, J., Cercone, D., Ciferno, J., Edwards, R., Ning, S., Schulpen, W., Seright, R., Sheets, B., Wang, D., Zhang, Y. 2021. First Ever Polymer Flood Field To Enhance The Recovery Of Heavy Oils On Alaska's North Slope - Pushing Ahead One Year Later. Paper

- SPE 200814 presented at the SPE Western Regional Meeting. Bakersfield, California. 20-22 April. doi:10.2118/195257-MS.
9. Wang, D., Li, C., & Seright, R.S. 2020. Laboratory Evaluation of Polymer Retention in a Heavy Oil Sand for a Polymer Flooding Application on Alaska's North Slope. *SPE Journal* **25**(4) 1842-1856. doi:10.2118/200428-PA.
  10. Brattekkås, B., Seright, R., & Ersland, G. 2020. Water Leakoff During Gel Placement in Fractures: Extension to Oil-Saturated Porous Media. *SPE Production & Operations* **34**(2) 202-213. doi:10.2118/190256-PA
  11. Brattekkås, B., & Seright, R. 2020. The Mechanism for Improved Polymer Gel Blocking During Low-Salinity Waterfloods, Investigated Using Positron Emission Tomography Imaging. *Transport in Porous Media*. Springer (May 6, 2020). <https://doi.org/10.1007/s11242-020-01417-w>.
  12. Seright, R.S., Wavrik, K.E., Zhang, G. & AlSofi, A.M. 2020. Stability and Behavior in Carbonate Cores for New EOR Polymers at Elevated Temperatures in Hard Saline Brines. Paper SPE 200324 presented at the SPE Improved Oil Recovery Conference. Tulsa, Oklahoma. August 29-September 2, 2020.
  13. Liang, B., Jiang, H., Li, J., Li, M., Lan, Y., & Seright, R. 2020. Sizing Gelant Treatment for Conformance Control in Hydraulically Fractured Horizontal Wells. Paper SPE 200338 presented at the SPE Improved Oil Recovery Conference. Tulsa, Oklahoma. August 29-September 2, 2020.
  14. Wang, D., Li, C., & Seright, R.S. 2020. Polymer Retention Evaluation in a Heavy Oil Sand for a Polymer Flooding Application on Alaska's North Slope. Paper SPE 200428 presented at the SPE Improved Oil Recovery Conference. Tulsa, Oklahoma. August 29-September 2, 2020.
  15. Dandekar, A., Bai, B., Barnes, J., Cercone, D., Ciferno, J., Ning, S., Seright, R., Sheets, B., Wang, D., Zhang, Y. 2019. First Ever Polymer Flood Field Pilot - A Game Changer to Enhance the Recovery of Heavy Oils on Alaska's North Slope. Paper SPE 195257 presented at the SPE Western Regional Meeting. San Jose, California. 23-26 April. doi:10.2118/195257-MS.
  16. Seright, R. S., Wang, D., Lerner, N., Nguyen, A., Sabid, J., & Tochor, R. 2018. Can 25-cp Polymer Solution Efficiently Displace 1,600-cp Oil During Polymer Flooding? *SPE Journal* **23**(6) 2260-2278. doi:10.2118/190321-PA.
  17. Brattekkås, B. and R. S. Seright (2018). "Implications for improved polymer gel conformance control during low-salinity chase-floods in fractured carbonates." *Journal of Petroleum Science and Engineering* **163**: 661-670.
  18. Seright, R. S., Wang, D., Lerner, N., Nguyen, A., Sabid, J., & Tochor, R. Beneficial Relative Permeabilities for Polymer Flooding. Paper SPE 190321 presented at the SPE Improved Oil Recovery Symposium. Tulsa, Oklahoma. 14 April. doi:10.2118/190321-MS.
  19. Brattekkås, B., Ersland, G., & Seright, R. S. 2018. Solvent Leakoff During Gel Placement in Fractures: Extension to Oil-Saturated Porous Media. Paper SPE 190256 presented at the SPE Improved Oil Recovery Symposium. Tulsa, Oklahoma. 14 April. doi:10.2118/190256-MS.
  20. Liang, B. Jiang, H., Li, J., Seright, R.S., and Lake, L.W. 2017. Further Insights into the Mechanism of Disproportionate Permeability Reduction. Paper SPE 187364 presented at the SPE Annual Technical Conference and Exhibition. San Antonio, Texas. 9-11 October. <http://dx.doi.org/10.2118/187364-MS>.
  21. Wang, D., Seright, R.S., Moe Soe Let, K.P., Bhoendie, K., and Paidin, W.R. 2017. Compaction and Dilation Effects on Polymer Flood Performance. Paper SPE 185851 presented at the SPE Europec featured at 79th EAGE Conference and Exhibition. Paris, France. 12-15 June. <http://dx.doi.org/10.2118/185851-MS>.
  22. Wan, Hao, and Seright, R.S. 2017. Is Polymer Retention Different Under Anaerobic vs. Aerobic Conditions? *SPE Journal* **22**(2): 431-437. <http://dx.doi.org/10.2118/179538-PA>.

23. Brattekas, B., Steinsbo, M., Graue, A., Ferno, M.A., Espedal, H., and Seright, R.S. 2017. New Insight into Wormhole Formation in Polymer Gel during Water Case Floods with Positron Emission Tomography. *SPE Journal* **22**(1): 32-40. <http://dx.doi.org/10.2118/180051-PA>.
24. Seright, R.S. 2017. How Much Polymer Should Be Injected during a Polymer Flood? Review of Previous and Current Practices. *SPE Journal* **22**(1): 1-18. <http://dx.doi.org/10.2118/179543-PA>.
25. Brattekas, B., Steinsbo, M., Graue, A., Ferno, M.A., Espedal, H., and Seright, R.S. 2016. New Insight into Wormhole Formation in Polymer Gel during Water Case Floods with Positron Emission Tomography. Paper SPE 180051 presented at the SPE Bergen One Day Seminar. Bergen, Norway. 20-April <http://dx.doi.org/10.2118/180051-MS>.
26. Brattekas, B., Graue, A., and Seright, R.S. 2016. Low Salinity Chase Waterfloods Improve Performance of Cr(III)-Acetate HPAM Gel in Fractured Cores. *SPE Res Eval & Eng.* **19**(2): 331-339. <http://dx.doi.org/10.2118/173749-PA>.
27. Seright, R.S. 2016. How Much Polymer Should Be Injected during a Polymer Flood? Paper SPE 179543 presented at the SPE Improved Oil Recovery Symposium. Tulsa, Oklahoma. 11–13 April. <http://dx.doi.org/10.2118/179543-MS>.
28. Wan, Hao, and Seright, R.S. 2016. Is Polymer Retention Different Under Anaerobic vs. Aerobic Conditions? Paper SPE 179538 presented at the SPE Improved Oil Recovery Symposium. Tulsa, Oklahoma. 11–13 April. <http://dx.doi.org/10.2118/179538-MS>.
29. Seright, R.S., and Skjevrak, I. 2015. Effect of Dissolved Iron and Oxygen on Stability of HPAM. *SPEJ* **20**(3): 433-441. doi:10.2118/169030-PA
30. Brattekas, B., Pederson, S., Nistov, H., Haugen, A., Graue, A., Liang, J-T., and Seright, R. 2015. The Effect of Cr(III) Acetate-HPAM Gel Maturity on Washout from Open Fractures. *SPE Production & Operations* **30**(2): 99-109. <http://dx.doi.org/10.2118/169064-PA>.
31. Brattekas, B., Graue, A., and Seright, R.S. 2015. Low Salinity Chase Waterfloods Improve Performance of Cr(III)-Acetate HPAM Gel in Fractured Cores. Paper SPE 173749 presented at the SPE International Symposium on Oilfield Chemistry. The Woodlands, Texas, 13–15 April.
32. Zhang, Guoyin, and Seright, R.S. 2015. Hydrodynamic Retention and Rheology of EOR Polymers in Porous Media. Paper SPE 173728 presented at the SPE International Symposium on Oilfield Chemistry. The Woodlands, Texas, 13–15 April.
33. Manichand, R.N., and Seright, R.S. 2014. Field vs Laboratory Polymer Retention Values for a Polymer Flood in the Tambaredjo Field. *SPE Res Eval & Eng.* **17**(3): 314–325 <http://dx.doi.org/10.2118/169027-PA>.
34. Zhang, Guoyin, and Seright, R.S. 2014. Effect of Concentration on HPAM Retention in Porous Media. *SPEJ* **19**(3): 373–380. Paper 166256. <http://dx.doi.org/10.2118/166256-PA>.
35. Brattekas, B., Pederson, S., Nistov, H., Haugen, A., Graue, A., Liang, J-T., and Seright, R. 2014. The Effect of Cr(III) Acetate-HPAM Gel Maturity on Washout from Open Fractures. Paper SPE 169064 presented at the SPE Improved Oil Recovery Symposium. Tulsa, Oklahoma. 12–16 April. <http://dx.doi.org/10.2118/169064-MS>.
36. Seright, R.S., and Skjevrak, I. 2014. Effect of Dissolved Iron and Oxygen on Stability of HPAM. Paper SPE 169030 presented at the SPE Improved Oil Recovery Symposium. Tulsa, Oklahoma. 12–16 April. <http://dx.doi.org/10.2118/169030-MS>.
37. Manichand, R., and Seright, R. 2014. Field vs Laboratory Polymer Retention Values for a Polymer Flood in the Tambaredjo Field. Paper SPE 169027 presented at the SPE Improved Oil Recovery Symposium. Tulsa, Oklahoma. 12–16 April. <http://dx.doi.org/10.2118/169027-MS>.
38. Brattekas, B., Haugen, Å., Graue, A., and Seright, R. 2014. Gel Dehydration by Spontaneous Imbibition of Brine from Aged Polymer Gel. *SPEJ* **19**(1): 122–134. Paper 153118. <http://dx.doi.org/10.2118/153118-PA>.
39. Manichand, R., Moe Soe Let, K., Gil, L., Quillien, B., and Seright, R. 2013. Effective Propagation of HPAM Solutions through the Tambaredjo Reservoir during a Polymer Flood. *SPE Prod & Oper* **28**(4): 358–368. Paper SPE 164121. <http://dx.doi.org/10.2118/164121-PA>.

40. Zhang, G., and Seright, R. 2013. Effect of Concentration on HPAM Retention in Porous Media. Paper SPE 166265 presented at the 2013 SPE Annual Technical Conference and Exhibition. New Orleans, Louisiana. 30 September–2 October. <http://dx.doi.org/10.2118/166256-MS>.
41. Manichand, R., Moe Soe Let, K., Gil, L., Quillien, B., and Seright, R. 2013. Effective Propagation of HPAM Solutions through the Tambaredjo Reservoir during a Polymer Flood. Paper SPE 164121 presented at the SPE International Symposium on Oilfield Chemistry. The Woodlands, Texas, 8–10 April. <http://dx.doi.org/10.2118/164121-MS>.
42. Wang, D., Butler, R., Zhang, J., and Seright, R. 2012. Wettability Survey in Bakken Shale Using Surfactant Formulation Imbibition. *SPE Res Eval & Eng* **15**(6): 695–705. Paper SPE 153853. <http://dx.doi.org/10.2118/153853-MS>.
43. Seright, R., Zhang, G., Akanni, O., and Wang, D. 2012. A Comparison of Polymer Flooding with In-Depth Profile Modification. *J. Cdn. Pet. Tech.* **51**(5): 393–402. Paper SPE 146087. <http://dx.doi.org/10.2118/146087-PA>.
44. Moe Soe Let, K., Manichand, R., and Seright, R. 2012. Polymer Flooding a ~500-cp Oil. Paper SPE 154567 presented at the 2012 SPE Improved Oil Recovery Symposium, Tulsa, Oklahoma, 14–18 April. <http://dx.doi.org/10.2118/154567-MS>.
45. Brattekkås, B., Haugen, Å., Graue, A., and Seright, R. 2012. Gel Dehydration by Spontaneous Imbibition of Brine from Aged Polymer Gel. Paper SPE 153118 presented at the 2012 SPE Improved Oil Recovery Symposium, Tulsa, Oklahoma, 14–18 April. <http://dx.doi.org/10.2118/153118-PA>.
46. Wang, D., Butler, R., Zhang, J., and Seright, R. 2012. Wettability Survey in Bakken Shale Using Surfactant Formulation Imbibition. Paper SPE 153853 presented at the 2012 SPE Improved Oil Recovery Symposium, Tulsa, Oklahoma, 14–18 April. <http://dx.doi.org/10.2118/153853-MS>.
47. Seright, R., Fan, T., Wavrik, K., Wan, H., Gaillard, N., and Favero, C. 2011. Rheology of a New Sulfonic Associative Polymer in Porous Media. *SPE Res Eval & Eng* **14**(6): 726–734. Paper SPE 141355. <http://dx.doi.org/10.2118/141355-PA>.
48. Seright, R., Zhang, G., Akanni, O., and Wang, D. 2011. A Comparison of Polymer Flooding with In-Depth Profile Modification. Paper SPE 146087 presented at the 2011 CSUG/SPE Canadian Unconventional Resources Conference, Calgary, Alberta, Canada, 15–17 November. <http://dx.doi.org/10.2118/146087-MS>.
49. Willhite, G. and Seright, R. eds. 2011. *Polymer Flooding*. Richardson, Texas, SPE.
50. Seright, R., Fan, T., Wavrik, K., and Balaban, R. 2011. New Insights into Polymer Rheology in Porous Media. *SPEJ* **16**(1): 35–42. Paper SPE 129200. <http://dx.doi.org/10.2118/129200-PA>.
51. Seright, R., Fan, T., Wavrik, K., et al. 2011. Rheology of a New Sulfonic Associative Polymer in Porous Media. Paper SPE 141355 presented at the SPE International Symposium on Oilfield Chemistry, The Woodlands, Texas, 11–13 April 2011. <http://dx.doi.org/10.2118/141355-MS>.
52. Seright, R. and Jikich, S. 2011. Polymer Floods Move into Viscous Oil. *American Oil and Gas Reporter* **54**(2): 115–123.
53. Kamaraj, K., Zhang, G., Liu, Y., and Seright, R. 2011. Effect of Residual Oil Saturation on Recovery Efficiency during Polymer Flooding of Viscous Oils. Paper OTC 22040 presented at the Arctic Technology Conference, Houston, Texas, 7–9 February. <http://dx.doi.org/10.4043/22040-MS>.
54. Seright, R., Fan, T., Wavrik, K., and Balaban, R. 2011. New Insights into Polymer Rheology in Porous Media. *SPEJ* **16**(01): 35–42. Paper SPE 129200. <http://dx.doi.org/10.2118/129200-PA>.
55. Seright, R. 2010. Potential for Polymer Flooding Viscous Oils. *SPE Reservoir Evaluation and Engineering* **13**(4): 730–740. Paper SPE 129899. <http://dx.doi.org/10.2118/129899-PA>



56. Seright, R., Campbell, A., Mozley, P., and Han, P.: Stability of Partially-Hydrolyzed Polyacrylamides at Elevated Temperatures in the Absence of Divalent Cations. *SPEJ* **15**(2): 341–348. Paper SPE 121460-PA. <http://dx.doi.org/10.2118/121460-PA>.
57. Seright, R., Fan, T., Wavrik, K., and Balaban, R. 2010. New Insights into Polymer Rheology in Porous Media. Paper SPE 129200 presented at the SPE Improved Oil Recovery Symposium, Tulsa, Oklahoma, USA, 24–28 April. <http://dx.doi.org/10.2118/129200-MS>.
58. Seright, R. 2010. Potential for Polymer Flooding Reservoirs with Viscous Oils. Paper SPE 129899 presented at the SPE Improved Oil Recovery Symposium, Tulsa, Oklahoma, USA, 24–28 April. <http://dx.doi.org/10.2118/129200-MS>.
59. Seright, R., Campbell, A., Mozley, P., and Han, P. 2009. Stability of Partially-Hydrolyzed Polyacrylamides at Elevated Temperatures in the Absence of Divalent Cations, *SPEJ* **15**(2): 1–8. Paper SPE 121460-PA. <http://dx.doi.org/10.2118/121460-PA>.
60. Seright, R., Seheult, M., and Talashek, T. 2009. Injectivity Characteristics of EOR Polymers, *SPE Res Eval & Eng* **12**(5): 783–792. Paper SPE 115142-PA. <http://dx.doi.org/10.2118/115142-PA>.
61. Seright, R., Lindquist, W., and Cai, R. 2009. Pore-Level Examination of Gel Destruction During Oil Flow. *SPEJ* **14**(3): 472–476. Paper SPE 112976-PA. <http://dx.doi.org/10.2118/112976-PA>.
62. Seright, R., Campbell, A., and Mozley, P. 2009. Stability of Partially Hydrolyzed Polyacrylamides at Elevated Temperatures in the Absence of Divalent Cations. Paper SPE 121460 presented at the 2009 SPE International Symposium on Oilfield Chemistry, The Woodlands, Texas, 20–22 April. <http://dx.doi.org/10.2118/121460-MS>.
63. Seright, R. 2009. Disproportionate Permeability Reduction with Pore-Filling Gels. *SPE Journal* **14**(1): 5–13. Paper SPE 99443-PA. <http://dx.doi.org/10.2118/99443-PA>.
64. Wang, D., Seright, R., Shao, Z., and Wang, J. 2008. Key Aspects of Project Design for Polymer Flooding at the Daqing Oil Field. *SPE Res Eval & Eng* **11**(6): 1117–1124. Paper SPE 109682. <http://dx.doi.org/10.2118/109682-PA>.
65. Seright, R., Seheult, J., and Talashek, T.A. 2008. Injectivity Characteristics of EOR Polymers. Paper 115142 presented at the 2008 SPE Annual Technical Conference and Exhibition, Denver, Colorado, September 21–24. <http://dx.doi.org/10.2118/115142-MS>.
66. Seright, R., Lindquist, W., and Cai, R. 2008. Understanding the Rate of Clean Up for Oil Zones after a Gel Treatment. Paper SPE 112976 presented at the 2008 SPE Improved Oil Recovery Symposium, Tulsa, OK, April 19–23. <http://dx.doi.org/10.2118/112976-MS>.
67. Wang, D., Han, P., Shao, Z., Weihong, H., and Seright, R... 2008. Sweep-Improvement Options for the Daqing Oil Field. *SPE Res Eval & Eng* **11**(01): 18–26. Paper SPE 99441-PA. <http://dx.doi.org/10.2118/99441-PA>.
68. Wang, D., Seright, R., Shao, D., and Wang, J. 2007. Key Aspects of Project Design for Polymer Flooding. Paper SPE 109682 presented at the 2007 SPE Annual Technical Conference and Exhibition, Anaheim, California, 11–14 November. <http://dx.doi.org/10.2118/109682-MS>.
69. Sydansk, R. and Seright, R. 2007. When and Where Relative Permeability Modification Water-Shutoff Treatments Can Be Successfully Applied. *SPE Prod & Oper* **22**(2): 236–247. Paper SPE 99371-PA. <http://dx.doi.org/10.2118/99371-PA>.
70. Zhang, G. and Seright, R. 2007. Conformance and Mobility Control: Foams versus Polymers, paper SPE 105907 presented at the 2007 SPE International Symposium on Oilfield Chemistry, Houston, Texas, February 28–March 2. <http://dx.doi.org/10.2118/105907-MS>.
71. Prodanovic, M., Lindquist, W., and Seright, R. 2007. 3D Image-Based Characterization of Fluid Displacement in a Berea Core. *Advances in Water Resources* **30**(2): 214–226.
72. Seright R., Han, P., and Wang, D. 2006. Current Colloidal Dispersion Gels Are Not Superior to Polymer Flooding. *Petroleum Geology & Oilfield Development in Daqing*, **5**(5), 71–80.

73. Prodanovic, M., Lindquist, W., and Seright, R. 2006. Porous Structure and Fluid Partitioning in Polyethylene Cores from 3D X-Ray Microtomographic Imaging. *J. Colloid and Interface Science*, **298**(1): 282–297.
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