## 7 REFERÊNCIAS BIBLIOGRÁFICAS

- Almond, S. W. et al. Factors Affecting Proppant Flowback with Resin-Coated Proppants, European Formation Damage Conference, The Netherlands, 1995.
- Andrew, J. S.; Statoil and Kjmholt H. Rock mechanical principles help to predict proppant flowback from hydraulic fractures, presentation at the SP131SRM Eurock, 90 held m Trondheim, SPE/ISRM 47382, Norway, 8 -10 July 1998.
- Andrews, J. S.; Kjorholt, H. Rock Mechanical Principles Help to Predict Proppant Flowback from Hydraulic Fractures, SPE/ISRM 47382, Eurock'98, Trondheim, Norway, 381-390, 1998.
- Asgian, M. I.; and Cundall, P.A.: The Mechanical Stability of Propped Hydraulic Fractures, paper SPE 28510 presented at the SPE Annual Technical Conference and Exhibition, New Orleans, 25-28 September. 1994.
- Barree R. D.; Barree & Associates, Realistic Assessment of Proppant Pack Conductivity for Material Selection, SPE 84306, Annual Technical Conference and Exhibition in Denver, Colorado, U.S.A., 5-8 October 2003.
- Barree R. D.; SPE, Marathon OIL Co. and Conway M.W.; SPE, Stim-Lab Inc. Experimental and Numerical Modeling of Convective Proppant Transport, SPE 28564.
- Barree, R. D.; Conway M.; Asadi M., N.; Patankar A.; Joseph D. D.; Wang J. Power law correlations for sediment transport in pressure driven channel flows, April 22, 2001.

- Barree, R. D.; Mukherjee, H. Engineering Criteria for Fracture Flowback Procedures, SPE 29600, Rocky Mountain Regional/Low-Permeability Reservoirs Symposium, Denver, Colorado, 567-580, 1995.
- Beggs, H. D. e Robinson, J.R. Estimating the viscosity of crude oil systems. J. Petr. Tech., 27, pp. 1140-1141, 1975.
- Canon, J. M. Avoid Proppant Flowback in tight-gas completions with Improved Fracture Design, SPE 84310 International Student Paper Contest at the SPE Annual Technical Conference and Exhibition being held in Denver, Colorado, 5-8 October 2003.
- Chan, A. F.; Parmely, J. P. Gravel Sizing Criteria for Sand Control and Productivity Optimization: Part II – Evaluation of the Long-Term Stability, SPE International Formation Damage Control Symposium, Lafayette, LA. 1992.
- Chris, J. S.; Allan R. R. Increased Resistance to Proppant Flowback by Adding Deformable Particles to Proppant Packs Tested in the Laboratory, SPE 56593, Annual Technical Conference and Exhibition held in Houston, Texas 3–6 October 1999.
- Cinco-Ley, H.; Samaniego, V.F: Effect of Wellbore Storage and Damage on the Transient Pressure Behavior of Vertical Fracture Wells, paper SPE 6752 presented at the SPE annual Fall Meeting, Denver, Colorado, 9-12 October, 1977.
- Coberly, C. J.; Wagner, E. M. Some Considerations in the Selection and Installation of Gravel Packs for Oil Wells, JPT, 1-20, 1938.
- Daneshy, A. A. A Study of Inclined Hydraulic Fractures. Soc. Petr. Engrs. J., 13, 61-68, 1989.

- Daneshy, A.A. Numerical solution of sand transport in hydraulic fracturing. J. Petr. Tech., Trans. AIME. 132-140, 1978.
- Dewprashad B. T. Rock Mechanics Evaluation of Resin-Coated Proppants for Screenless Completions, SPE 50734, International Symposium on Oilfield Chemistry held in Houston, Texas, Feb. 16-19, 1999.
- Dewprashad, B. et al. A Method to Select Resin-Coated Proppants, SPE 26523, Annual Technical Conference and Exhibition, Houston, Texas, USA, 1993.
- Di Lullo, G.; Rae, P. New Technique Prevents Proppant Flowback and Improves Fracture Conductivities, SPE 68656, Asia Pacific Oil and Gas Conference and Exhibition, Jakarta, Indonesia, 1-6, 2001.
- 20. Economides, J. M. et al. **Unified Fracture Desig**, Estados Unidos, Orsa Press, 2000.
- Economides, J. M.; Nolte, K. G. Reservoir Stimulation, 3<sup>a</sup> ed. Inglaterra: John Wiley & Sons, 2000.
- Economides, J. M.; Nolte K. G. Reservoir Stimulation, Janet Gulbis and Richard M. Hodge, Chapter 7, Fracturing Fluid Chemistry and Proppants, Third Edition, Wiley, 7-19 to 7-22, 2003.
- 23. Economides, M. J.; Nolte, K. G. Reservoir Stimulation, Janet Gulbis and Richard M. Hodge, Chapter 12 Post-Treatment Evaluation and Fractured Well Performance, B. D. Poe, Jr., and Michael J. Economides Third Edition, Wiley, 12-16 to 12-20, 2003.
- Enron, L. J.; Global E&P Inc. A Study of Two-Phase, Non-Darcy Gas Flow Through Proppant Pacs, SPE 49248 (SPE 66544), prepared for the 1998 SPE Annual Technical Conference and Exhibition held in New Orleans, Louisiana, 27–30 September 1998.

- PA 816-R-04-003, Evaluation of Impacts to Underground Sources of Drinking Water by Hydraulic Fracturing of Coalbed Methane Reservoirs, 2004.
- 26. Fernandes, P. D. Técnicas de Estimulação: aumentando a produtividade de poços de petróleo, Boletim BVEP, Ano I, nº 17, 2001.
- Gidley, J. L. Effect of Proppant Failure and Fines Migration on Conductivity of Propped Fractures, SPE 24008, Production & Facilities, 1995.
- Goel, N.; Shah, S. N. Experimental Investigation of Proppant Flowback Phenomena Using a Large Scale Fracturing Simulator, SPE 56880, Annual Technical Conference and Exhibition, Houston, Texas, 1-11, 1999.
- 29. Haidar, S. et al. Novel Fracture Technology Proves Marginal Prospect Economic, Pat II: Well Close-Up, Flock and Testing: paper SPE 36473 presented at the SPE Annual Technical Conference and Exhibition Denver, Oct. 6-9, 1996.
- 30. Hill, K. E. Factors Affecting the Use of Gravel in Oil Wells, Oil Weekly, 13-20, 1941.
- Jennings, A. R. Jr. Laboratory Studies of Fines Movement in Gravel Packs, 71<sup>th</sup> SPE 36420, Annual Technical Conference and Exhibition, Denver, CO. 1996.
- Legarth, B. et al. Stimulation Experiments in Sedimentary, Low-Enthalpy Reservoirs for Geothermal Power Generation, European Geothermal Congress, 2003.
- Leone, J. A. et al. Gravel Sizing Criteria for Sand Control and Productivity Optimization, SPE 20029, 60<sup>th</sup> SPE Annual California Regional Meeting, Ventura, CA. 1990.

- Martins, J. P. et al. Deviated Well Fracturing and Proppant Control in the Prudhoe Bay Field, SPE 24858, 67<sup>th</sup> SPE Annual Technical Conference and Exhibition, Washington, DC, 955-970, 1992.
- McCabe W. L.; Smith J.C. Unit Operations of Chemical Engineering, McGraw-Hill Book Co. Inc., New York 146-169, 1976.
- 36. Milton-Tayler, D. et al. Factors Affecting the Stability of Proppant in Propped Fractures: Results of a Laboratory Study, SPE 24821, 67<sup>th</sup> SPE Annual Technical Conference and Exhibition, Washington DC, 569-579, 1992.
- Naval, Goel and Subhash, N. Shah. Experimental Investigation of Proppant Flowback Phenomena Using a Large Scale Fracturing Simulator, SPE 56880 Annual Technical Conference and Exhibition held in Houston, Texas, 3–6 October 1999.
- Nguyen P. D.; SPE, Weaver Jim D. Enhancing Fracture Conductivity Through Surface Modification of Proppant, SPE presentation at the Formation Damage Control Conference held in Lafayette, LA, U.S.A. 18-19 February, 1998.
- Nguyen, P. D.; Weaver, J. D.; Parker, M. A.; King, D. G.; Gillstrom, R. L., and Van Batenburg, D. W.: Proppant Flowback Control Additives, paper SPE 36689, presented at the SPE Annual Technical Conference and Exhibition, Denver, Oct. 6-9, 1996.
- Nimerick, K.H. et al. Compatibility of Resin-Coated Proppants with Crosslinked Fracturing Fluids, SPE 20639, Annual Technical Conference and Exhibition, New Orleans, Louisiana, USA, 1990.
- Norman, L. R.; Terracina, J.M. Application of Curable Racing-Coated Proppants, paper presentation at the 1990 SPE 20640, Annual Technical Conference and Exhibition held in New Orleans Sept 23-26, 1990.

- Olson, K. E.; Olsen E.; Field Valhall. Horizontal well stimulations "Acid vs. proppant" and Best Practices for Fracture Optimization, SPE 84392, Annual Technical Conference and Exhibition hel in Denver, Colorado, U.S.A., 5-8 October 20031.
- Parker, M.; Weaver, J. and Van, Batenburg, D. Understanding Proppant Flowback, paper SPE 56726 presented at the 1999 SPE Annual Technical Conference and Exhibition, Houston, 3-6 October, 1999.
- Patankar, N. A., Joseph J. D. D. Wang. Barree R. D. power law correlations for sediment transport in pressure driven channel flows, Department of Mechanical Engineering, Northwestern University, Evanston, IL 60208, 2002.
- 45. Rae P.; Briggiler N. (2001). New Technique for Proppant Flowback and Improved Fracture Conductivities, SPE 69580, Presentation at the SPE Latin American and Caribbean Petroleum Engineering Conference held in Buenos Aires, Argentina, 25–28 March 2001.
- Richardson, and Zaki W.N. Sedimentation and fluidization: Part I, trans. Instn. Chem. Engrs 32, 35-53, 1954.
- Romero, D. J.; Feraud, J. P. Stability of Proppant Pack Reinforced with Fiber for Proppant Flowback Control, paper SPE 31093 presented at the SPE Formation Damage Control Symposium, Lafayette, Feb. 14-1, 1996.
- Romero, D. J.; Valkó P. P. and Economides M. J. Optimization of the productivity index and the fracture geometry of a stimulated well with fracture face and choke skins, SPE Paper 73758, 2002.
- Salz, L.B. Relationship Between Fracture Propagation Pressure and Pore Pressure, paper SPE 6870, presented at the SPE Annual Technical Conference and Exhibition, Denver, Oct. 7-12. 1977.

- 50. Saucier, R. J. Considerations in Gravel Pack Design, JPT, 205-212, 1974.
- Smith, M. B. et al. Enhanced 2D Proppant Transport Simulation: The Key to Understanding Proppant Flowback and Post-Flack Productivity, SPE 38610, Annual Technical Conference and Exhibition, San Antonio, Texas, 447-456, 1997.
- Smith, V.T. et al. Proppant Effects on Zirconium Crosslinked Frac Fluids, SPE Permian Basin Oil and Gas Recovery Conference, SPE 27720, Midland, Texas, USA, 1994.
- Sparlin, D. D.; Hagen, R. W.: Proppant Selection for Fracturing and Sand Control, World Oil 37-40, January 1995.
- Stadalman, J. R.; Nonvoting R. J.; Houchin L. R. Understanding longevity, Paper SPE 14160, Technical Conference and Exhibition, Las Vegas, Nev., Sept. 22-25,1985.
- Stiles, D.A. Compatibility of Curable Resin-Coated Proppants with Breakers in Crosslinked Fracturing Fluids, Southwestern Petroleum Short Course, Lubbock, Texas, USA, 1991.
- 56. Terracina, J.; SPE, Mark Parker, How to Reduce Proppant Flowback in High-Rate Wells, SPE 6820, Prepared for presentation at the 2001 SPE Middle East Oil Show held in Bahrain, 17-20 March 2001.
- 57. Vreeburg, R. J.; Roodhort, L. P. Davies, D. R.; and Penny, G. S. Proppant Back Production During Hydraulic Fracturing: A New Failure Mechanism for Resin-Coated Proppants, paper SPE 27382, presented at the International Symposium on Formation Damage, Lafayette, February 7-10, 1994.
- Weaver, J. D.; SPE, Baker John D. (1999), Application of Surface Modification Agent in Wells With High Flow Rates, SPE 53923,

Presentation at the Sixth Latin American and Caribbean Petroleum Engineering Conference, held in Caracas, Venezuela, April 21-23, 1999.

- 59. Weaver, J. et al. Application of Surface-Modification Agent in Wells with High Flow Rates, SPE 53923, 6<sup>th</sup> Latin American and Caribbean Petroleum Engineering Conference, Caracas, Venezuela, 1-10, 1999.
- Wilberg, D. M. et al. Optimization of Fracture Cleanup Using Flowback Analysis, SPE 39920, Rocky Mountain Regional/Low Permeability Reservoirs Symposium and Exhibition, Denver, Colorado, 1-13, 1998.

## **Normas API**

RP-56 (1995), Recommended practices for testing sand used in hydraulic fracturing operations,  $2^{a}$  ed., American Petroleum Institute.

RP-58 (1995), Recommended practices for testing sand used in gravel packing operations, 2<sup>a</sup> ed., American Petroleum Institute.

RP-60 (1995), Recommended practices for testing high-strength proppants used in hydraulic fracturing operations, 2<sup>a</sup> ed., American Petroleum Institute.

## Páginas eletrônicas

http://www.spe.org. Society of Petroleum Engineer

http://www.carboceramics.com/tools/tr physical.html

http://www.carboceramics.com/1024/tools/topical\_ref.html, Formation Sand Control.

http://www.carboceramics.com/1024/tools/topical\_ref.html, Physical Properties of Proppant.

http://www.carboceramics.com/1024/tools/topical\_ref.html, Laboratory Testing of Proppants.

http://www.carboceramics.com/1024/tools/topical\_ref.html, Conductivity Cell Measurements.

http://www.carboceramics.com/1024/tools/topical ref.html, Crush Testing.

http://www.carboceramics.com/1024/tools/topical\_ref.html, Stress Cycling.

http://www.dvsind.com/lightweight\_technology.shtml, Lightweight Proppant and Lightweight Additive.

http://www.corelab.com/stimlab/default.asp. http://pumpjack.tamu.edu/~valko/Course\_Material/04a\_P629/Common/. http://www.oilfield.slb.com/content/resources/oilfieldreview/index.asp?. http://pangea.stanford.edu/PetEng/horiz/AllPublications.htm. http://www.aem.umn.edu/people/faculty/joseph/PL-correlations/ http://www.optimus.ab.ca/products.html.