OilFieldGeomechanics

Selected Publications and Papers for Marisela Sanchez-Nagel, Ph.D.

1. Nagel, N.B., D. Gokaraju, A. Mitra, and M. Sanchez-Nagel, 2017, "**Consideration of Stress Shadows in Stacked Plays**", Paper ARMA 17-884 presented at 51st US Rock Mechanics/Geomechanics Symposium, San Francisco, CA, USA, 25-28 June.
2. Sanchez-Nagel, M., N.B. Nagel, A.A. Rodriguez, and N. Nieto, 2017, "**Evaluating Stresses Along Horizontal Wells in Unconventional Plays**", SPE Paper 184875 presented at the SPE Hydraulic Fracturing Technology Conference, The Woodlands, Texas, USA, 24-28 January.
3. Nagel, N.B., Sanchez-Nagel, M.A., 2015, "**On the Importance and Impact of Key Geomechanical Parameters in Unconventional Play Developments**", ARMA 15-514 presented at the 49th US Rock Mechanics / Geomechanics Symposium held in San Francisco, CA, USA, 28 June-1 July 2015.
4. Zhang, F., Nagel, N.B., Sanchez-Nagel, M., Lee, BT., Agharazi, A., 2013**, "The Critical Role of In-Situ Pressure on Natural Fracture Shear and Hydraulic Fracturing-Induced Microseismicity Generation",** SPE Paper 167130 presented at the SPE Unconventional Resources Conference-Canada, Calgary, Alberta, 5-7 **November.**
5. **Nagel, N.B., Zhang, F., Sanchez-Nagel, M., Lee, BT., Agharazi A., 2013, "Stress Shadow Evaluations for Completion Design in Unconventional Plays"**, SPE Paper 167128 presented at the SPE Unconventional Resources Conference-Canada, Calgary, Alberta, 5-7 November.
6. Nagel, N.B., F. Zhang, M. Sanchez-Nagel and B. Lee, 2013, **"Evaluation of Stress Changes Due to Multi-Stage Hydraulic Fracturing - Consideration of Field Results",** presented at Rock Mechanics for Resources, Energy and Environment, Eurock13, the ISRM International Symposium, Wroclaw, Poland, 21-26 September.
7. Rios, A.M., G. Gutierrez, N.B. Nagel, F. Zhang, M. Sanchez-Nagel and B. Lee, 2013, **"Stress Shadow Evaluations for Chicontepec - Evaluating New Completion Options",** Paper ARMA 13-200 presented at 47th US Rock Mechanics/Geomechanics Symposium, San Francisco, CA, USA, 23-26 June.
8. Zhang, F., N.B. Nagel, B. Lee and M. Sanchez-Nagel, 2013, **"The Influence of Fracture Network Connectivity on Hydraulic Fracture Effectiveness and Microseismcity Generation",** Paper ARMA 13-199 presented at 47th US Rock Mechanics/Geomechanics Symposium, San Francisco, CA, USA, 23-26 June.
9. Zhang, F., N.B. Nagel, X. Garcia, B. Lee and M. Sanchez-Nagel, 2013, **"Fracture Network Connectivity - A Key To Hydraulic Fracturing Effectiveness and Microseismcity Generation",** presented at ISRM International Conference for Effective and Sustainable Hydraulic Fracturing, Brisbane, Australia, 20-22 May.
10. Nagel, N.B., F. Zhang, M. Sanchez-Nagel, X. Garcia, and B. Lee, 2013**, "Quantitative Evaluation of Completion Techniques on Influencing Shale Fracture Complexity",** presented at ISRM International Conference for Effective and Sustainable Hydraulic Fracturing, Brisbane, Australia, 20-22 May.
11. Savitski, A. A., M. Lin, A. Riahi, B. Damjanac and N.B. Nagel, 2013, **"Explicit Modeling of Hydraulic Fracture Propagation in Fractured Shales,"** in International Petroleum Technology Conference, Beijing, China.
12. Nagel, N.B., M. Sanchez-Nagel, F. Zhang, X. Garcia, and B. Lee, 2013, **"Coupled Numerical**

Evaluations of the Geomechanical Interactions Between a Hydraulic Fracture Stimulation and a Natural Fracture System in Shale Formations", Rock Mechanics and Rock Engineering, DOI 10.1007/s00603-013-0391-x

13. Nagel, N.B., Sanchez-Nagel, M.A., and Lee, B., **"Gas Shale Hydraulic Fracturing: A Numerical Evaluation of the Effect of Geomechanical Parameters"**, SPE Paper #152192-PP presented at the SPE Hydraulic Fracturing Technology Conference, The Woodlands, USA, February 6-8, 2012.
14. Nagel, N.B., Damjanac, B., Garcia, X., and Sanchez-Nagel, M.A., **"Discrete Element Hydraulic Fracture Modeling - Evaluating Changes in Natural Fracture Aperture and Transmissivity",** CSUG/SPE Paper #148957-PP presented at the Canadian Unconventional Resources Conference, Calagary, Alberta, Canada, November 15-17, 2011.
15. Nagel, N.B. and Sanchez-Nagel, M.A., **"Stress Shadowing and Microseismic Events: A Numerical Evaluation**", SPE Paper #147363-PP presented at the SPE Annual Technical Conference and Exhibition, Denver, CO, USA, October 30-November 2, 2011.
16. Pettitt, W., M. Pierce, B. Damjanac, J. Hazzard, L. Lorig, C. Fairhurst, I. Gil, M. Sanchez, N. Nagel, J. Reyes-Montes, and R. Paul Young, 2011, **"Fracture Network Engineering for Hydraulic Fracturing",** The Leading Edge, In Print.
17. Neal Nagel, Ivan Gil, and Marisela *Sanchez*-Nagel, SPE, Itasca Houston, Inc., Branko Damjanac (2011**) "Simulating Hydraulic Fracturing in Real Fractured Rocks - Overcoming the Limits of Pseudo3D Models"**. SPE *Hydraulic Fracturing Technology Conference, 24-26* January, The *Woodlands,* Texas.
18. Damjanac, B, Gil I, Pierce, M Sanchez, M., and Mc Lennan, J (2010). **"A new approach to hydraulic fracturing modeling in naturally fractured reservoirs".** Proc., paper ARMA 10-40044th - U.S. Rock Mechanics Symposium and 5th U.S.-Canada Rock Mechanics Symposium, June 27 - 30, Salt Lake City, Utah.
19. Adachi, J T., T. Hartman, L. Lomas, R. Plumb, I Gil, M Sanchez and R Taghavi (2008**)."Automatic grid generation, property rezoning and Geomechanical Analysis of Petrel-Eclipse petroleum reservoir data with FLAC3"**. 1st International FLAC/DEM Symposium, Minneapolis, August – Paper No. 02-01
20. Jean Claude Roegiers, University of Oklahoma, Marisela Sánchez, Andrés R. Vásquez H., V.V.A. Consultores C.A. José A. González, Manuel Ramones, Arturo Sulbarán, W. Poquioma (2000). **"Application of Geomechanics to solve Sand Production and Borehole Stability problems in the Area 2 Sur-Ceuta field, Lake Maracaibo, Venezuela"**. Oil & Gas Exe Vol. 3, No. 2.
21. Sánchez D, M, Vásquez A., Van Alstine, D. Butterworth, J. García J., Carmona R., Poquioma W., Ramones M. (1999**). "Application of Geomechanics to the development of a naturally fractured carbonate reservoir in Mara Oeste Field, Venezuela".** SPE 54008, LACPEC, Caracas.
22. Vásquez, A.R., Sánchez, M.S., McLennan, J.D., Guo, Q., Portillo, F., Poquioma, W., Blundun, M. and Mendoza, H.: **"Mechanical and Thermal Properties of Unconsolidated Sands and its Application to the Heavy Oil SAGD Project the Tia Juana Field, Venezuela,"** *paper SPE 54009* presented at the 1999 SPE Latin American and Caribbean Petroleum Engineering Conference, Caracas, Venezuela, April 21-23.
23. Vásquez A., Sánchez M., Yánez R., Poquioma W., Rampazzo M., El Chirity K. (1999**). "The diagnosis, Well Damage Evaluation and critical drawdown calculations of Sand production problems in the Ceuta Field, Lake Maracaibo, Venezuela".** SPE 54011, LACPEC, Caracas, 1999.
24. Sánchez, M., Cabrera J.R., Coll. C. (1996). **"Geomechanical Design of a Horizontal well in Maracaibo Lake: Real-drilling time application"** SPE 37088. International Conference and Exhibition on Horizontal Well Technology, Canada.

25. Sánchez, M., Lin D., Roegiers, J.-C (1993). **"Chebyshev Spectral Collocation Method for Leakoff in Hydraulic Fractures**" International Conference for Computer Methods and Advances in Geomechanics. Morgantown, West Virginia.
26. Sánchez, M., Natera, J. and Abreu, R (1990)**. "Compressibility of Rocks from El Furrial".** III South American Conference in Rock Mechanics.
27. Rajani, B., Sanchez, M. (1989). **"Regional Characterization of Geomechanical Properties of Unconsolidated Sands of the Heavy Oil Belt"**, Venezuela. V UNITAR Conference, Canada.