



TECHNICAL PUBLICATIONS:

1. Dharwadkar, P.S., Sassen, D.S., Quinn, C., and Suarez-Rivera, R. (2021). Optimizing Pressure History Matching with Ultra-Fast and High-Fidelity Hydraulic Fracture Simulations: Defining Fluid Friction Factors and Global Trends of Minimum Tectonic Strain and Fluid Leakoff. ARMA 21-1627. 55th US Rock Mechanics Symposium, Houston, TX. 20-23 June 2021
2. Kahle, J., and Suarez-Rivera, R. (2021). Using equivalent fractures for accurate and rapid completion modeling. ARMA 21-1626. 55th US Rock Mechanics Symposium, Houston, TX. 20-23 June 2021
3. Dontsov, E., Suarez-Rivera, R., Panse, R., Quinn, C., E., LaReau, H., Suter, K., Hines, C., Montgomery, R., and Koontz, K. (2021). Ultra-Fast, Pad-Scale Modeling of Hydraulic Fracturing and Depletion for Optimizing Development Plans in the Eagle Ford Play. SPE-204151-MS. SPE Hydraulic Fracturing Technology Conference and Exhibition 4 - 6 May 2021.
4. Suarez-Rivera, R., Panse, R., Sovizi, J., Dontsov, E., LaReau, H., Suter, K., Blose, M., Hailu, T., and Koontz, K. (2021). Multi-Well Pressure History Matching in Delaware Play Helps Optimizing Fracturing for Subsequent Pads. SPE-204162-MS. SPE Hydraulic Fracturing Technology Conference and Exhibition 4 - 6 May 2021.
5. Suarez-Rivera, R., Clark B., Sassen, D., Quinn, C. (2021). Child Well Fracture Sequencing for Improved Production. Unconventional Resources Technology Conference held in Houston, Texas, USA, 26-28 July 2021.
6. Abell, B., Suarez-Rivera, R., and Mayo J.T. (2021). Mitigating the Effect of Ash Layers on Hydraulic Fracture Connectivity. Unconventional Resources Technology Conference held in Houston, Texas, USA, 26-28 July 2021.
7. Dontsov, E. and Suarez-Rivera, R. (2021). Representation of high-resolution rock properties on a coarser grid for hydraulic fracture modeling. *Journal of Petroleum Science and Engineering* 198, 2021
8. Dontsov, E. and Suarez-Rivera, R. (2020). Propagation of multiple hydraulic fractures in different regimes. *International Journal of Rock Mechanics and Mining Sciences* 128, 2020
9. Dontsov, E. and Suarez-Rivera, R. (2020). An Equivalent Representation of Multiple Hydraulic Fractures with a Fewer Number of Fractures for Reservoir Modeling. ARMA 20-1834. 54th US Rock Mechanics/Geomechanics Symposium. Golden, Colorado, USA, 28 June-1 July 2020
10. E. Dontsov and R. Suarez-Rivera. Propagation of multiple hydraulic fractures in different regimes. *Int. J. of Rock Mech. and Min. Sci.*, 128:104270, 2020.
11. Xing, P., Suarez-Rivera, R., & Dontsov, E. (2020, June 1st). Induced Fracturing During Coring and Core Retrieval in Unconventional Reservoirs. ARMA 20-1970. 54th US Rock Mechanics/Geomechanics Symposium. Golden, Colorado, USA, 28 June-1 July 2020
12. Dontsov, E., Bungler, A., Abell, B., & Suarez-Rivera, R. (2019). Ultrafast Hydraulic Fracturing Model for Optimizing Cube Development. Unconventional Resources Technology Conference. doi:10.15530/urtec-2019-885
13. Abell, B., Xing, P., Bungler, A., Dontsov, E., & Suarez-Rivera, R. (2019). Laboratory Investigation of Leak-Off During Hydraulic Fracturing into Bedding Interfaces. Unconventional Resources Technology Conference. doi:10.15530/urtec-2019-900



14. Suarez-Rivera, R., Dontsov, E., & Abell, B. (2019). Quantifying the Induced Stresses During Stacked, Multi-Stage, Multi-Well Completions, to Define Stimulation Sequencing and Optimize Pad Productivity. Unconventional Resources Technology Conference. doi:10.15530/urtec-2019-892
15. Suarez-Rivera, R., Von Gonten, W. D., Vaughn, K., Zak, R., Carter, E., Kurup, A., Shaw, M. (2016, August 1). Integration of Thermal and Solvent Extraction Methods for Improved Characterization of Hydrocarbon in Place and Producibility. Unconventional Resources Technology Conference. doi:10.15530/URTEC-2016-2461786
16. Suarez-Rivera, R., Von Gonten, W. D., Graham, J., Ali, S., Degenhardt, J., & Jegadeesan, A. (2016, August 1). Optimizing Lateral Landing Depth for Improved Well Production. Unconventional Resources Technology Conference. doi:10.15530/URTEC-2016-2460515
17. Ilgen Anastasia, Jason E. Heath, I Yucel Akkutlu and Roberto Suarez-Rivera. Shales at all scales: Exploiting Coupled Processes in Mudrocks. Earth Science Reviews 166. January 2017.
18. Gu Hongren, Xiaowei Weng, Jeffrey B. Lund, and R. Suarez-Rivera. Hydraulic Fracture Crossing Natural Fracture at NonOrthogonal Angles, A Criterion, Its Validation and Applications. SPE 139984, SPE Production and Operations. Dec 2016
19. Malachowska Alexandra, Sidney Green, Hupka Jan, and Roberto Suarez-Rivera. Mineral and Organic Matter Constituents in Weak Interfaces in Shales. ARMA-635, June 2016
20. Suarez-Rivera Roberto, W.D. Von Gonten, K. Vaughn, R. Zak, E. Carter, A. Kurup, and M. Shaw. Integration of Thermal and Solvent Extraction Methods for Improved Characterization of Hydrocarbon in Place and Producibility. URTEC 2461786. August 2016
21. Suarez-Rivera Roberto, W.D. Von Gonten, J Graham, J Degenhardt, and Ajay Jegadeesan. Optimizing Lateral Landing Depth for Improved Well Production. URTEC 2460515. August 2016
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23. Handwerger D. A., R Castaneda Aguilar, Don Stachiw, and Roberto Suarez-Rivera. Using Multivariate Data Classification on Frontier Exploration Basins to Enhance the Information Value of Suboptimal 2D Seismic Surveys for Unconventional Reservoir Characterization. URTEC-2179307-MS. July 2015
24. Chertov Maxim A., R. Suarez-Rivera. Practical Laboratory Methods for Pore Volume Compressibility Characterization in Different Rock Types. ARMA 14-7532, June 2014.
25. **Stanchitz Sergei, Aniket Surdi, Patrick Gathogo, Eric Edelman, and Roberto Suarez-Rivera.** Onset of Hydraulic Fracture Initiation Monitored by Acoustic Emission and Volumetric Deformation Measurements. Rock Mechanics and Rock Engineering 47(5). September 2014.
26. **Stanchitz Sergei, Jeff Burghardt, A. Surdi, Eric Edelman, and Roberto Suarezs-Rivera.** Acoustic Emission Monitoring of Heterogeneous Rock Hydraulic Fracturing. ARMA 7775. June 2014.
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29. Chang Frank F, Kirk Barko, Steve Dyer, Jeff Lund, Gallyam Aidagulov and Roberto Suarez-Rivera. Multiple Fracture Initiation in Openhole Without Mechanical Isolation: First Step to Fulfill an Ambition. SPE 168638. SPE Hydraulic Fracture Technology Conference, February 2014.
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35. Ambrose J., Zimmerman and Roberto Suarez-Rivera. Failure of shales under triaxial compressive stress. American Geophysical Union, Fall Meeting 2013
36. Suarez-Rivera, R., D. Handwerger, A. Rodriguez Herrera, S. Herring, K. Stevens, S. Marino, and D. Paddock 2013. Development of a Heterogeneous Earth Model in Unconventional Reservoirs, for Early Assessment of Reservoir Potential. ARMA 13-3667. 47th US Rock Mechanics / Geomechanics Symposium held in San Francisco, CA, USA, 23-26 June 2013.
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54. Surdi A., D. Ekart, P. Duran and R. Suarez-Rivera 2010. Possible Sources of Acoustic Emission Events During Hydraulic Fracturing. ARMA 10-478. 44th US Rock Mechanics Symposium and 5th U.S.-Canada Rock Mechanics Symposium. Salt Lake City, UT June 27–30, 2010.
55. Deenadayalu C. and R. Suarez-Rivera 2010. The Effect of Horizontal Completions on the Breakdown Pressures of Anisotropic Gas Shales. ARMA 10-477. 44th US Rock Mechanics Symposium and 5th U.S.-Canada Rock Mechanics Symposium, held in Salt Lake City, UT June 27–30, 2010.
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