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Dave Maity
Senior Engineer, Projeo

Publications

1. *Quantifying Proppant in the SRV Along a Fractured Well at the Hydraulic Fracturing Test Site: A Proppant Log Case Study from Permian-Delaware Basin* (URTeC conference, 2022). https://doi.org/10.15530/urtec-2022-3704106
2. *Novel Proppant Logging Technique for Infill Drilling of Unconventional Shale Wells* (Journal: SPE Reservoir Evaluation & Engineering, 2022). https://doi.org/10.2118/209790-PA
3. *Systematic Comparison of Proppant Placement in SRV Along Two Fractured Wells at the Hydraulic Fracturing Test Site: A Case Study from Midland Basin* (URTeC paper, 2021). https://doi.org/10.15530/urtec-2021-5190
4. *Diagnostic assessment of reservoir response to fracturing: a case study from Hydraulic Fracturing Test Site* (HFTS) in Midland Basin (Journal of Petroleum Exploration & Production Technology, 2021). https://doi.org/10.1007/s13202-021-01234-x
5. *A Systematic Interpretation of Subsurface Proppant Concentration from Drilling Mud Returns: Case Study from Hydraulic Fracturing Test Site* (HFTS-2) in Delaware Basin (URTeC paper, 2021). https://doi.org/10.15530/urtec-2021-5189
6. *Digital Fracture Characterization at Hydraulic Fracturing Test Site HFTS-Midland: Fracture Clustering, Stress Effects and Lithologic Controls* (SPE HFTC, 2021). https://doi.org/10.2118/204174-MS
7. *Stage-Level Data Integration to Evaluate the Fracturing Behavior of Horizontal Wells at the Hydraulic Fracturing Test Site (HFTS): An Insight into the Production Performance* (URTeC, 2020). https://doi.org/10.15530/urtec-2020-3058
8. *A Data Analytics Framework for Cored Fracture Imaging and Novel Characterization Workflow - Application on Samples from Hydraulic Fracturing Test Site HFTS in the Midland Basin* (SPE HFTC, 2020). https://doi.org/10.2118/199754-MS
9. *An Interpretation of Proppant Transport Within the Stimulated Rock Volume at the Hydraulic-Fracturing Test Site in the Permian Basin* (Journal: SPE Reservoir Evaluation & Engineering, 2019). https://doi.org/10.2118/194496-PA
10. *Using microseismic frequency-magnitude distributions from hydraulic fracturing as an incremental tool for fracture completion diagnostics* (Journal of Petroleum Science Engineering, 2019). https://doi.org/10.1016/j.petrol.2019.01.111
11. *Designing a robust proppant detection and classification workflow using machine learning for subsurface fractured rock samples post hydraulic fracturing operations* (Journal of Petroleum Science Engineering, 2019). https://doi.org/10.1016/j.petrol.2018.09.062
12. *Correlating microseismicity with relevant geophysical and petrophysical data to understand fracturing process during hydraulic stimulation: A case study from the Permian Basin* (SEG Annual Meeting, 2018). https://doi.org/10.1190/segam2018-2995006.1
13. *Microseismicity Analysis for HFTS Pad and Correlation With Completion Parameters* (URTeC, 2018). https://doi.org/10.15530/urtec-2018-2902355
14. *Assessment of In-Situ Proppant Placement in SRV Using Through- Fracture Core Sampling at HFTS* (URTeC, 2018). https://doi.org/10.15530/URTEC-2018-2902364

15. *Fracture Spacing Design for Multistage Hydraulic Fracturing Completions for Improved Productivity* (Journal of Sustainable Energy Engineering, 2016). https://doi.org/10.7569/jsee.2016.629506
16. *Variable Pump Rate Fracturing Leads to Improved Production in the Marcellus Shale* (SPE HFTC, 2016). https://doi.org/10.2118/179107-MS
17. *Neuro-evolutionary event detection technique for downhole microseismic surveys* (Computers & Geosciences, 2016). https://doi.org/10.1016/j.cageo.2015.09.024
18. *Correlating Pressure with Microseismic to Understand Fluid-Reservoir Interactions During Hydraulic Fracturing* (Journal of Sustainable Energy Engineering, 2015). https://doi.org/10.7569/jsee.2015.629506
19. *Novel fracture zone identifier attribute using geophysical and well log data for unconventional reservoirs* (Journal: Interpretation, 2015). https://doi.org/10.1190/INT-2015-0003.1
20. *Semblance Weighted Emission Mapping for Improved Hydraulic Fracture Treatment Characterization* (SEG Annual Meeting, 2014). https://onepetro.org/SEGAM/proceedings-abstract/SEG14/All-SEG14/SEG-2014-0025/79298
21. *Novel hybrid artificial neural network based autopicking workflow for passive seismic data* (Journal: Geophysical Prospecting, 2014). DOI: https://doi.org/10.1111/1365-2478.12125
22. *Fracture Characterization in Unconventional Reservoirs using Active and Passive Seismic Data with Uncertainty Analysis through Geostatistical Simulation* (SPE Annual Meeting, 2013). https://doi.org/10.2118/166307-MS
23. *Integrated Approach Towards Multi-Array Microseismic Survey Design* (SEG Annual Meeting, 2013). https://onepetro.org/SEGAM/proceedings-abstract/SEG13/All-SEG13/SEG-2013-1307/99540
24. *A new approach towards optimized passive seismic survey design with simultaneous borehole and surface measurements* (Joint PSAAPG/ SPE/ PSSEPM/ PCS-SEG Conference, 2013). https://www.searchanddiscovery.com/documents/2013/41143maity/ndx_maity.pdf
25. *An integrated methodology for sub-surface fracture characterization using microseismic data: A case study at the NW Geysers* (Journal: Computers & Geosciences, 2013). https://doi.org/10.1016/j.cageo.2012.10.015
26. *Framework for Time Lapse Fracture Characterization Using Seismic, Microseismic & Well Log Data* (SEG Annual Meeting, 2012). https://onepetro.org/SEGAM/proceedings-abstract/SEG12/All-SEG12/SEG-2012-0387/97953
27. *Novel Hybrid ANN Autopicker for Hydrofrac Data: A Comparative Study* (SEG Annual Meeting, 2012). https://onepetro.org/SEGAM/proceedings-abstract/SEG12/All-SEG12/SEG-2012-0805/98196
28. *Reservoir Characterization of an Unconventional Reservoir by Integrating Microseismic, Seismic, and Well Log Data* (SPE WRM, 2012). https://doi.org/10.2118/154339-MS
29. *Artificial Neural Network Based Autopicker For Micro-earthquake Data* (SEG Annual Meeting, 2011). https://onepetro.org/SEGAM/proceedings-abstract/SEG11/All-SEG11/SEG-2011-1623/98896
30. *Analysis of microseismicity using fuzzy logic and fractals for fracture network characterization* (AGU Fall Meeting, 2010). https://ui.adsabs.harvard.edu/abs/2010AGUFM.H33D1174A/abstract
31. *Characterizing fractures in the geysers geothermal field using soft computing* (Geothermal Rising conference, 2010).