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Publications

(Peer Reviewed Papers)

- Fathi, E., Carr, T., Adenan, M., Panetta, B., Kumar, A., Carney, B.J., 2022, High quality fracture network mapping using high frequency logging while drilling (LWD) data: MSEEL Case Study, Machine Learning with Applications, MWLA 100421 <https://doi.org/10.1016/j.mlwa.2022.100421>
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- Panetta, Brian J., 2003, Facies Identification and Depositional Environment Interpretation, North Blowhorn Creek oil field, Lamar County, Alabama, Gulf Coast Association of Geological Societies Trans. v. 53 pg. 639-648.
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- Mancini, Ernest A., Benson, D.J., Hart, B.S., Balch, R.S., Parcell, W.C., and Panetta, B.J., 2000 Appleton field case study (eastern Gulf Coastal Plain): field development model for Upper Jurassic microbial reef reservoirs associated with paleotopographic basement structures, Am. Assoc. Petroleum Geologists Bull. v. 84, p. 1699-1717.
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(Research Reports)

- Crandall, D., Brown, S., Moore, J., Carr, T., Panetta, B.; 2022, Herrick Well, 9/16/2022, <https://edx.netl.doe.gov/dataset/herrick-well>
- Crandall, D., Paronish, T., Brown, S., Martin, K., Carr, T., Panetta, B.; 2022, Tippens 6HS Well, 9/16/2022, <https://edx.netl.doe.gov/dataset/tippens-6hs-well>
- Paronish, T.; Schmitt, R.; Crandall, D.; Moore, J.; Brown, S.; Carr, T., Panetta, B.; 2022, Computed Tomography Scanning and Geophysical Measurements of Core from the Boggess 17H Well; NETL-TRS-X-2022; EAct Technical Report Series; U.S. Department of Energy, National Energy Technology Laboratory: Morgantown, WV, 2022; p 59. <https://edx.netl.doe.gov/dataset/boggess-17h-well>
- Brown, S., Crandall, D., Moore, J., Mackey, P., Carr, T., Panetta, B., 2018, Computed Tomography Scanning and Geophysical Measurements of the Utica Shale from the Herrick 3H Well: NETL-TRS-8-2018; NETL Technical Report Series; U.S. Department of Energy, National Energy Technology Laboratory, Morgantown, WV, 92p.
- Crandall, D., Paronish, T., Brown, S., Martin, K., Moore, J., Carr, T.R., Panetta, B., 2018, CT Scanning and Geophysical Measurements of the Marcellus Formation from the Tippens 6HS Well; NETL-TRS-3-2018; NETL Technical Report Series; U.S. Department of Energy Technology Laboratory, Morgantown, WV, 32 p.
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- Mancini, E.A., Haynes, C., Benson, J., Hilton, D., Cate, D., Blasingame, T., Ahr, W., Archer, R., Major, R.P., Brown, L., Vadie, A., Stafford, W., Panetta, B., Tedesco, W., Hopkins, T., Avila, J., Chijuka, E., Tan, A., Lynch, L., French, T., Thompson, K., Green, M., and Sorrell, J., 2003, Improved oil recovery from

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 - Puckett, T. Markham, B.L. Bearden, E.A. Mancini, and B.J. Panetta, Topical Report 3, 2000, Petroleum plays and underdeveloped reservoirs in the Mississippi Interior Salt Basin, Basin analysis of the Mississippi Interior Salt Basin and petroleum system modeling of the Jurassic Smackover Formation, eastern Gulf Coastal Plain, U.S. Department of Energy Report, 107 p.
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 - Mancini, Ernest A., T.M. Puckett, W.C. Parcell, and B.J. Panetta, 1999, Topical Reports 1 and 2, Basin analysis of the Mississippi Interior Salt Basin and petroleum system modeling of the Jurassic Smackover Formation, eastern Gulf Coastal Plain, U.S. Department of Energy Report, 425 p.
 - Panetta, B.J., 1995, The relationship of Devonian black shale gas production to natural fractures in portion of the Appalachian Basin, Martin County, eastern Kentucky, Master's Thesis, University of Kentucky, 124 p.

Publications

(Conference Proceedings)

- Carr, T., Panetta, B., and Fathi, E., 2024, Significance of Shale Barriers, Baffles and Vertical Fractures for Carbon Storage, SEG Technical Program Expanded Abstracts: (in press).
- Carr, T., Carney, B.J., Panetta, B., and Fathi, E., 2024, Evaluating Direct Deep-Use Geothermal Potential in the Appalachian Basin, SEG Technical Program Expanded Abstracts: (in press).
- Panetta, B., Carr, T., and Fathi, E., 2023, Interactive 3D visualization of integrated geologic and geophysical subsurface data using python, Geological Society of America Abstracts with Programs. Vol. 55, No. 6, 2023 doi: 10.1130/abs/2023AM-394312.
- Adenan, M., Fathi, E., Carr, T., Panetta, B., Carney, B.J., 2023, Identification of baffle/barrier locations in Illinois Basin Decatur Project (IBDP) site using automated formation micro imager (FMI) log interpretation, Proceedings from 4th Annual Appalachian Basin Geophysical Symposium, June 7, 2023, Canonsburg, PA.
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- Pham, V., Fathi, E., Carr, T., Li, L., Panetta, B., 2022, Near wellbore natural fracture mapping using a new hybrid automated machine learning workflow (AMLW): A real field application in the Marcellus Shale Energy and Environmental Lab (MSEEL), Am. Assoc. of Petroleum Geologists – Carbon Capture, Utilization and Storage Conference (CCUS) proceedings, Houston, TX.
- Carr, T., Fathi, E., Panetta, B., Adenan, M., Carney, B.J., Mitchell, N., 2022, Significance of near wellbore preexisting fractures for completion and production efficiencies in the Marcellus Shale Energy and Environmental Lab (MSEEL); SPE - Completion optimization focused on the near wellbore region – Methods, techniques, and technologies that are critical for continued process improvement, Workshop Proceedings, October 18-19, 2022, Scottsdale, AZ.
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- Fathi, E., Carr, T., Adenan, M.F., Panetta, B., Kumar, A., Carney, B.J., 2022, Near wellbore natural fracture mapping using a new hybrid automated machine

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- Carr, T., Fathi, E., Bohn, R., Adenan, M.F., Li, L., Panetta, B., Carney, B.J., 2022, Mitchell, N. Importance of Preexisting Fractures to Completion and Production Efficiencies in the Marcellus Shale Energy and Environmental Lab (MSEEL). Proceedings 2022 Society Petroleum Engineers Annual Hydraulic Fracture Technology Conference, The Woodlands, Texas, 1-3 February, 15p.
- Mancini, E.A., Blasingame, T.A., Archer, R., Panetta, B.J., Llinas, J.C., and Bearden, B.L., Improving recovery from mature oil fields producing from Upper Jurassic carbonate reservoirs, northeastern Gulf of Mexico, USA, Am. Assoc. of Petroleum Geologists 2005 Paris Abstract Volume.
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- Panetta, B.J., 2003, Reservoir characterization and modeling, North Blowhorn Creek oil field, Lamar County, Alabama, Am. Assoc. of Petroleum Geologists 2003 Abstract Volume, p. A132.
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