

Supplementary Information

Optimizing Raman Spectroscopy for Kerogen Maturity in Carbonate-Rich Source Rocks: The Critical Role of Targeted Decarbonation

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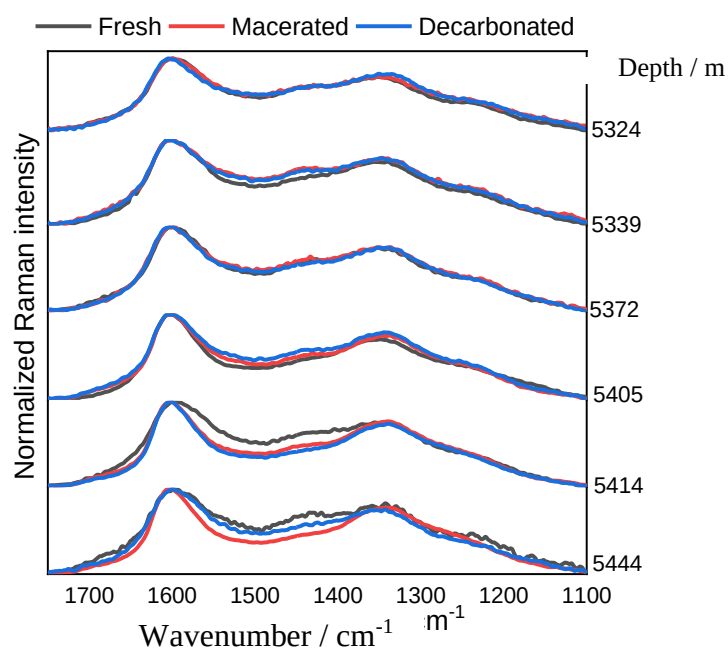


Figure S1. Raman spectra overlaid of drill cuttings samples from well 6-DEV-18P-RJS at three processing stages: fresh, macerated, and decarbonated samples obtained with a 532 nm laser source. The spectra are stacked in order of increasing depth, as indicated on the right side of the figure.

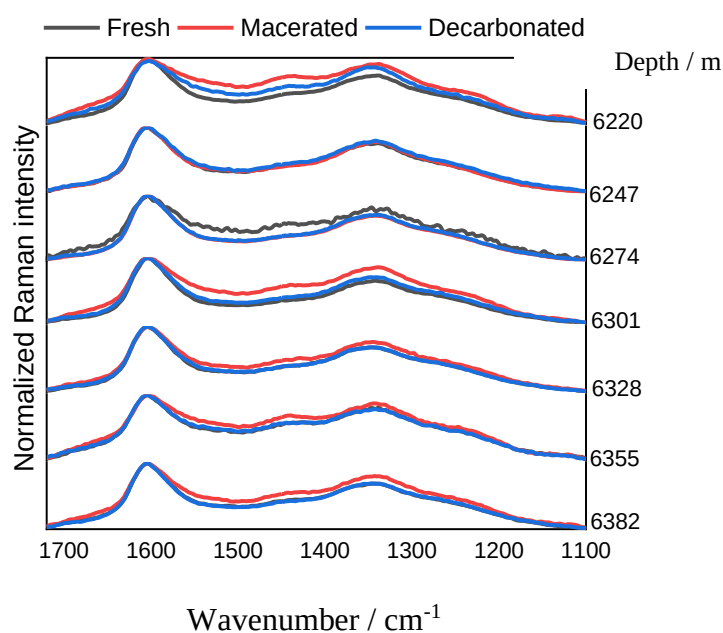


Figure S2. Raman spectra overlaid of drill cuttings samples from well 3-BP-11-RJS at three processing stages: fresh, macerated, and decarbonated samples obtained with a 532 nm laser source. The spectra are stacked in order of increasing depth, as indicated on the right side of the figure.