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Supplemental Material

Table S1. Stable isotopes analyses ($\delta^{13}\text{C}_{\text{carb}}$ and $\delta^{18}\text{O}_{\text{carb}}$) and ED-XRF elemental concentrations ([Ca] and [Mg]).

Figure S1. Cross-plot depicts $\delta^{18}\text{O}_{\text{carb}}$ versus $\delta^{13}\text{C}_{\text{carb}}$ from the Cooks #1 and Lemcool #1 wells combined. There is no significant correlation between $\delta^{13}\text{C}_{\text{carb}}$ and $\delta^{18}\text{O}_{\text{carb}}$ (Fig. 3) either collectively ($R^2 = 0.12$, P-value < 0.001) or by well ($R^2 < 0.03$, P-value < 0.001). The $\delta^{13}\text{C}_{\text{carb}}$ and $\delta^{18}\text{O}_{\text{carb}}$ data cluster by well, with the Cooks #1 well exhibiting generally higher $\delta^{18}\text{O}_{\text{carb}}$ values than the Lemcool #1 well.