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About the Cover

From the paper by Lessenger et al., SEM images of mineral surfaces showing the presence and absence of asphaltene deposits. Minerals imaged include quartz (upper left), carbonate (upper right), chloride (lower left), and admixed chlorite and illite (lower right). These ‘bumpy’ asphaltene films can be seen as aggregated asphaltene deposits on otherwise smooth mineral surfaces. The presence of asphaltene on mineral surfaces can flip their wettabilities from water-wet to oil-wet. The imaged pores are mixed-wet at the macro- and micropore scales.