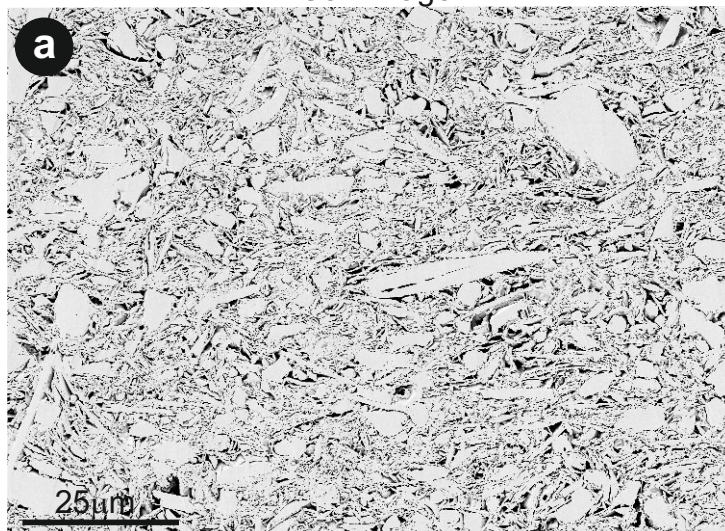
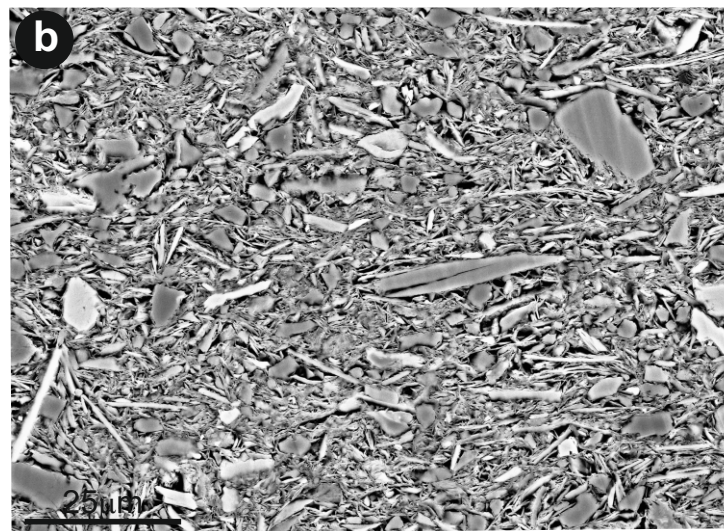


U1480F-26F-1W-29-31(depth 226.7mbsf)

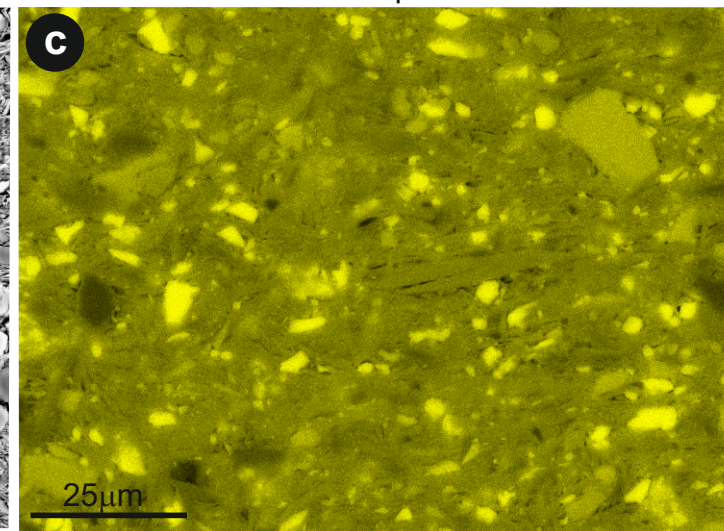
Se2 image



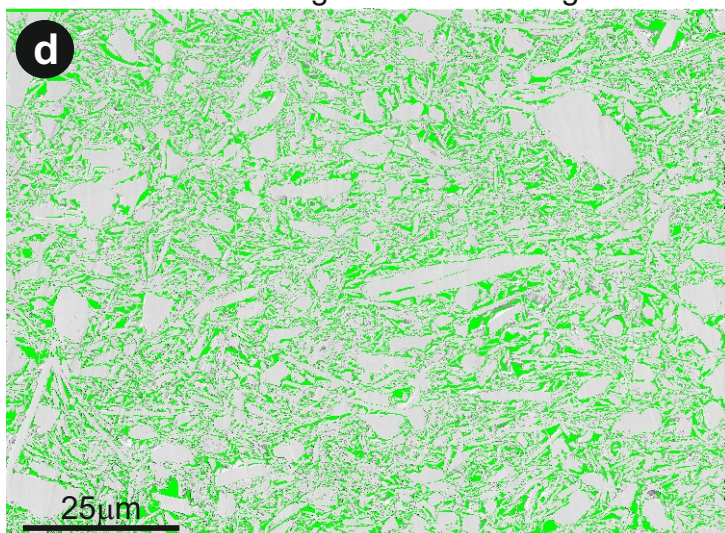
BSE image



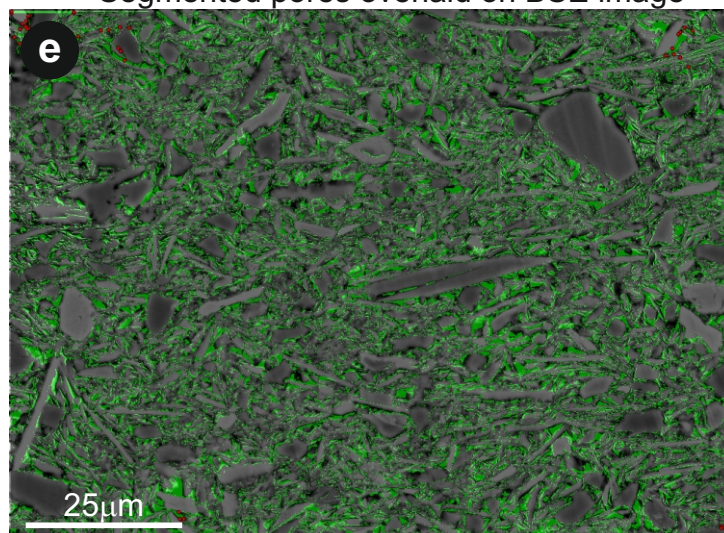
Si map



Pore segmented Se2 image



Segmented pores overlaid on BSE image



Segmented pores overlaid on mineral phase map

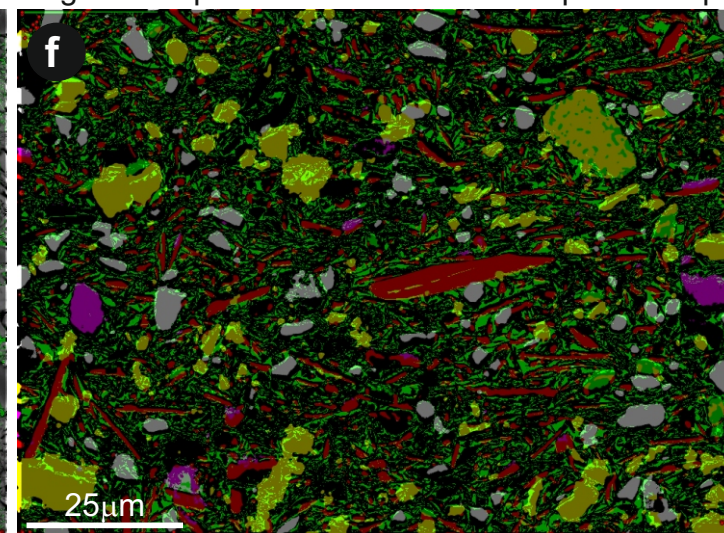


Figure S3: (a) Original SE2 mosaic map for sample U1480F-26F-1W-29-31 imaged at 20,000x magnification; (b) BSE mosaic imaged at 10,000x magnification; (c) Si elemental map for similar cross-section area; (d) Porosity segmented SE2 mosaic map where green areas represent pores; (e) green-colored segmented pores overlaid on BSE mosaic; (f) segmented pores overlaid on phase maps of similar cross section area. Grey = quartz; yellow = feldspar; Red = mica; pink = pyrite; blue = calcite.