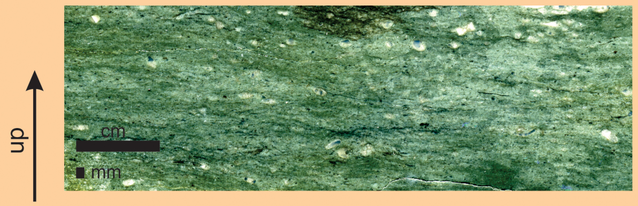
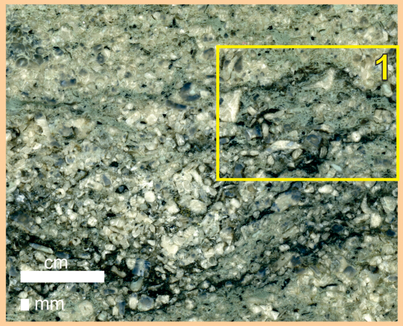
E 65 cm 50 cm 30 cm W

Sample **5**
Siliciclastic mudstone with rare crinoid grains.

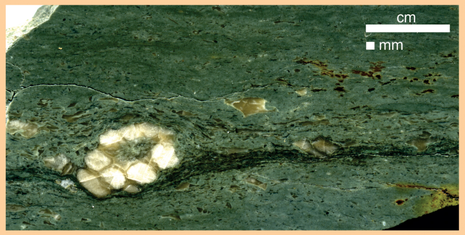


Sample **4**
Siliciclastic mudstone with dispersed crinoid grains interbed of **Heterolithic B** Facies. Crinoid grainstone interbeds occur immediately above and below this layer.

Photo **1**
Heterolithic A Facies

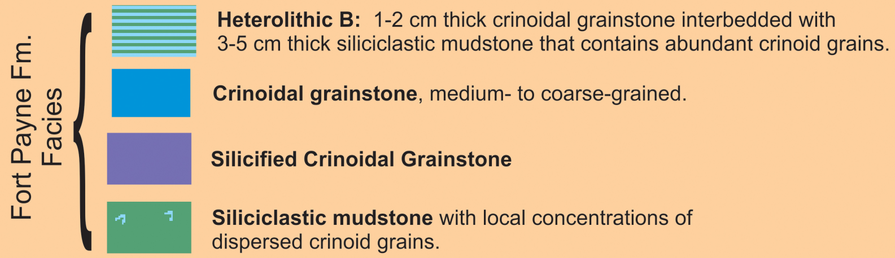


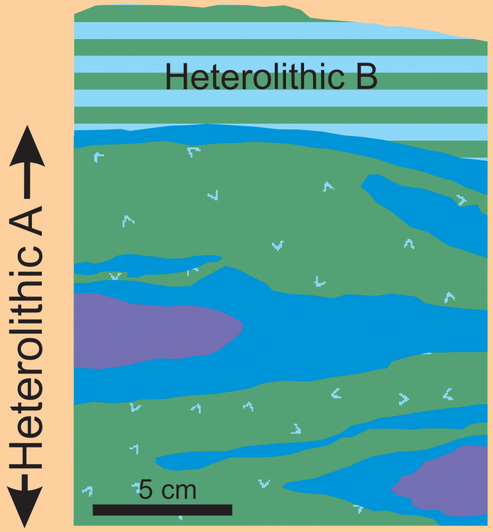
Sample **3**
Crinoid grainstone



Sample **4B**
Isolated crinoid grain (calyx?) that appears to be a dropstone. Observe the 1) disrrupted laminations on each side and at the base and 2) the parallel, convex laminations on the top.

Sample **3**, insert 1
Pale green material is siliciclastic mud.





Section D-4, Detail 1: Petrographic illustration of horizontal,150 cm-wide, facies change

Facies change in the central 150 centimeters of **Section D-4** from crinoid grainstone (Sample **3**) to siliciclastic mudstone with rare crinoid grains (Sample **5**). This horizontal change takes place via first, a) **Heterolithic A** consisting of interfingering crinoid grainstone and siliciclastic mudstone with dispersed crinoid grains (Photo **1**) and then into b) **Heterolithic B** consisting of planar, cm-scale interbeds of siliciclastic mudstone with dispersed crinoid grains and crinoid grainstone (Sample **4**). This facies change occurs in a single, 30 cm-thick bed.