



**Figure 22.** Hardgrounds near the top of the Hatter Formation at Union Furnace. The rocks exhibit several morphological types. Most are smooth to rolling hardgrounds, but hummocky and undercut hardgrounds developed on the lowest bed and some of the upper beds. The hardground beds are graded bioclastic grainstone. The normal grading indicates decelerating flow and resedimentation, probably from storm wave-generated suspensions. These “event depositions” were followed by periods of non-deposition long enough for hardgrounds to develop through submarine cementation. These beds are near the top of a high-energy shallowing-upward peritidal succession, and probably formed on the flank of a shallow shoal area, or in an intershoal area.