



Figure 5.12. Kanawha Black Flint Shale (Sample KBF-WV). Photomicrographs of rock fragment C (Fig. 4). *A*, Quartz grains (Qtz), muscovite laths (Ms), green chlorite (Chl), clots of brown clay, pyrite (Py), and organic material; plane-polarized light. *B*, Same view in crossed nicols shows birefringence of carbonate-rich rock matrix. *C*, Same view in reflected light. All of the white grains are pyrite (Py). Note that both pyrite and organic material appear opaque (black) in transmitted light and some pyrite is enclosed in organic material.