



FIGURE 13.46. Superposition of channel bars and fills (storeys) within channel-belt sandstone bodies. Thick lines are basal erosion surfaces of compound channel bars, thin lines are large-scale inclined strata, and arrows are idealized paleocurrent directions relative to the outcrop plane (down is out of the outcrop). (A) Downstream migration and climbing of one bar over another bar. (B) Superposition of channel bars and fills of different depths and widths. (C) Superposition of channel bars of similar size but different sinuosities and orientations. (D) Superposition of different channel belts. (E) Superposition of channel bars in different channel belts and within channel belts. It may be difficult to distinguish these two different types of superposition using vertical sedimentary logs or gamma-ray logs (compare the two logs on the right-hand side of the figure). Images (A)–(D) from Willis (1993a); (E) from Bridge and Tye (2000). AAPG © 2000 reprinted by permission of the AAPG, whose permission is required for further use.

