

Petroleum systems IX: A rotated pinch-out

This page uses sketches of a possible pinch-out trap to illustrate the concept of the petroleum system. Here, convenient proximity of source to reservoir allows migration of oil into the reservoir. In one case, subsequent cementation of the remaining uncharged water-filled reservoir generates a bottom seal. Subsequent tilting does not allow draining of the reservoir, because the diagenetic seal precludes tertiary migration. By contrast, earlier tilting before any cementation allows the accumulation to drain updip. The timing is everything, in this case with regard to the development of a secondary (diagenetic) seal.

