

Figure 14: The farthest distance at which a pressure buildup is observed after 2.4 hours after injection start. (The case numbers refer to the different petrophysical realizations; in addition, each realization can have three different degrees of faulting. See Table 3.)

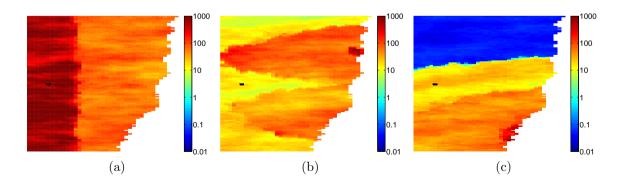


Figure 15: Top view of the permeability for three types of different realizations (in units milli Darcy); the well location is shown with black color in each plot. Heterogeneity can influence the pressure propagation within the medium. From case (a) to (c) the pressure build up shows higher values around the injector with larger propagation distances from the injection point.