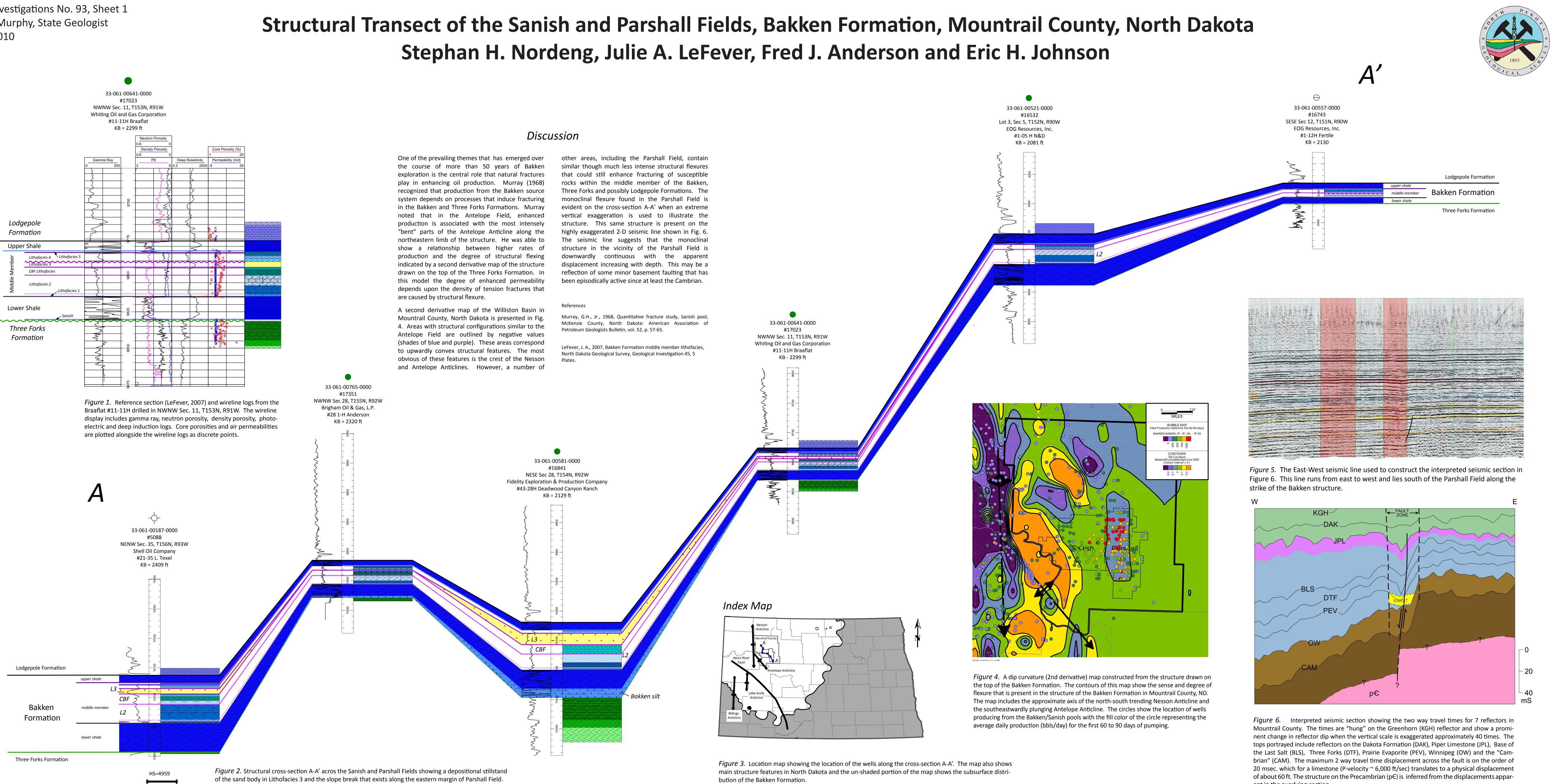
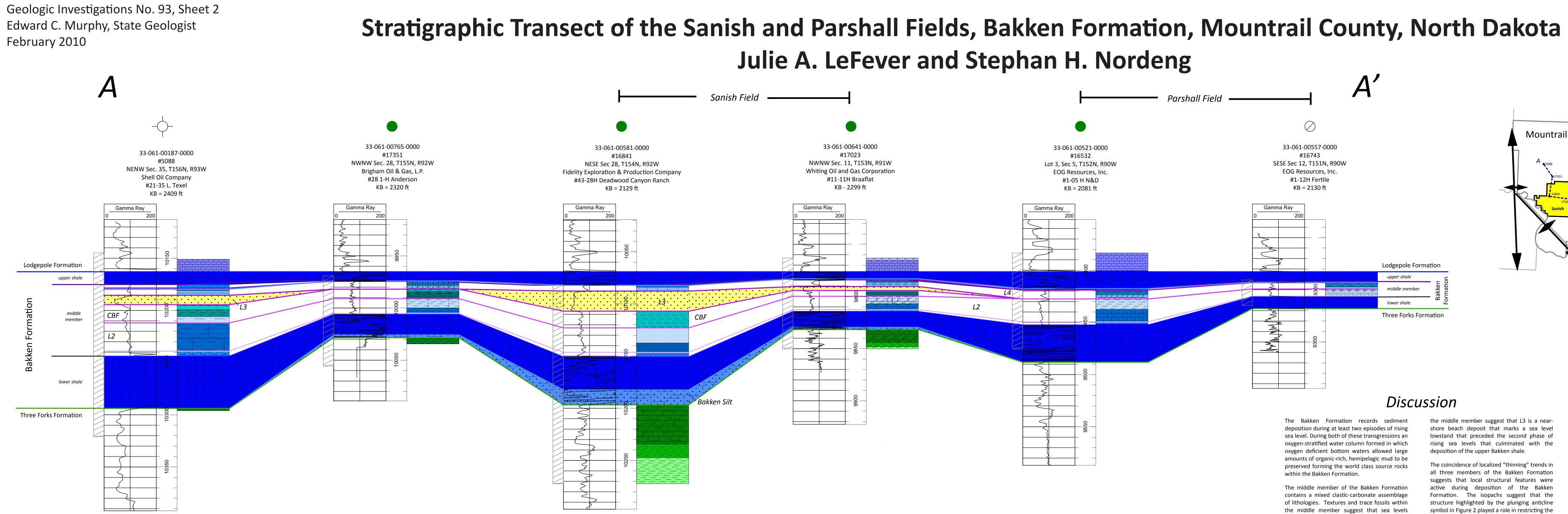


VE = 100x



ent in the overlying section.



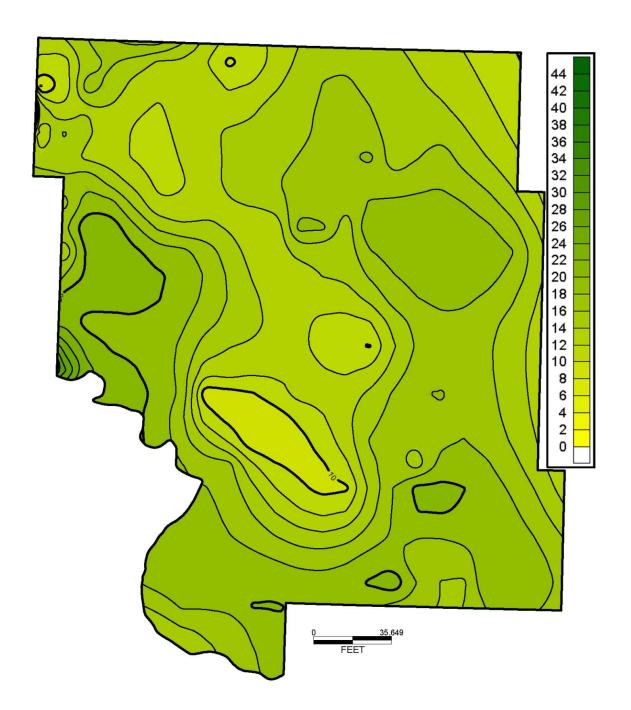
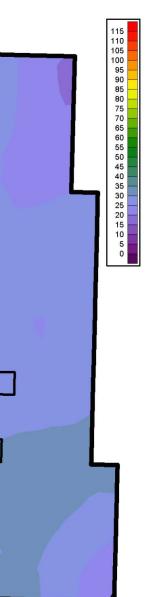
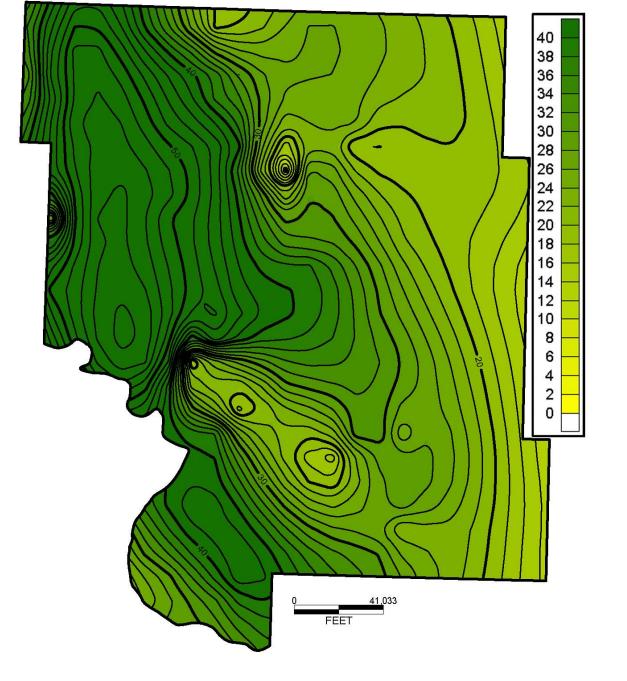


Figure 1 Isopach of the upper shale member of the Bakken Formation in Mountrail County, ND.

Figure 2 Concident thinning in the isopach maps of the upper, middle (shown here) and lower members of the Bakken Formation indicate that a positive structural element, shown here as a plunging anticline, was active during Bakken time.





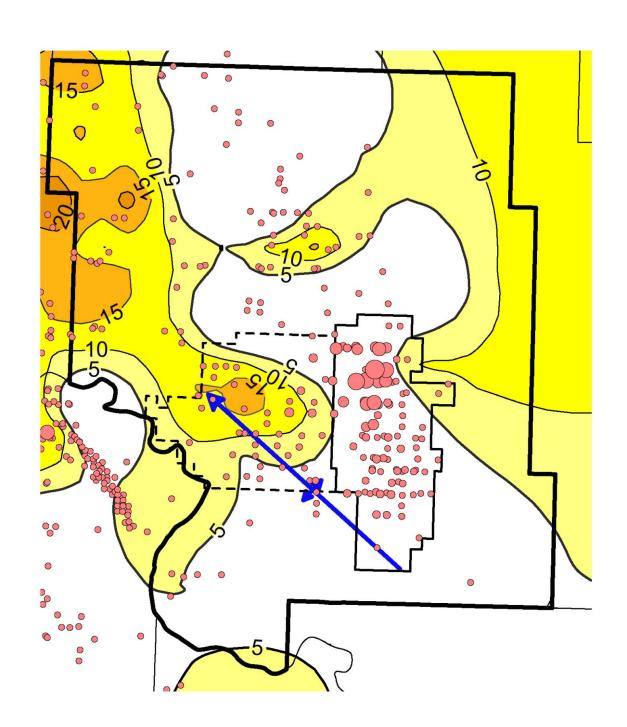


Figure 3 Isopach of the lower shale member of the Bakken Formation in Mountrail County, ND.

of the first 60 days of production.

initially fell during middle Bakken time forming a generally upward shoaling succession of finegrained to mud-sized clastic and carbonate sediments that, in the deeper parts of the basin, are capped by clean, fine-grained, crossstratified sandstones or grainstones. In North Dakota this sandstone unit is referred to as Lithofacies 3 (L3) and frequently forms a characteristic "clean gamma-ray" bench on logs (see Fig. 5). The vertical succession of facies in

Figure 4 An isopach of Lithofacies 3 showing an updip pinchout of the unit. The shaded intervals areas in which L3 is at least 5 ft thick. Each color change represent a 5 ft increase in thickness. Production levels in the county are plotted as circles with the radius being proportional to the daily average



Representative Core

