

Plate 5

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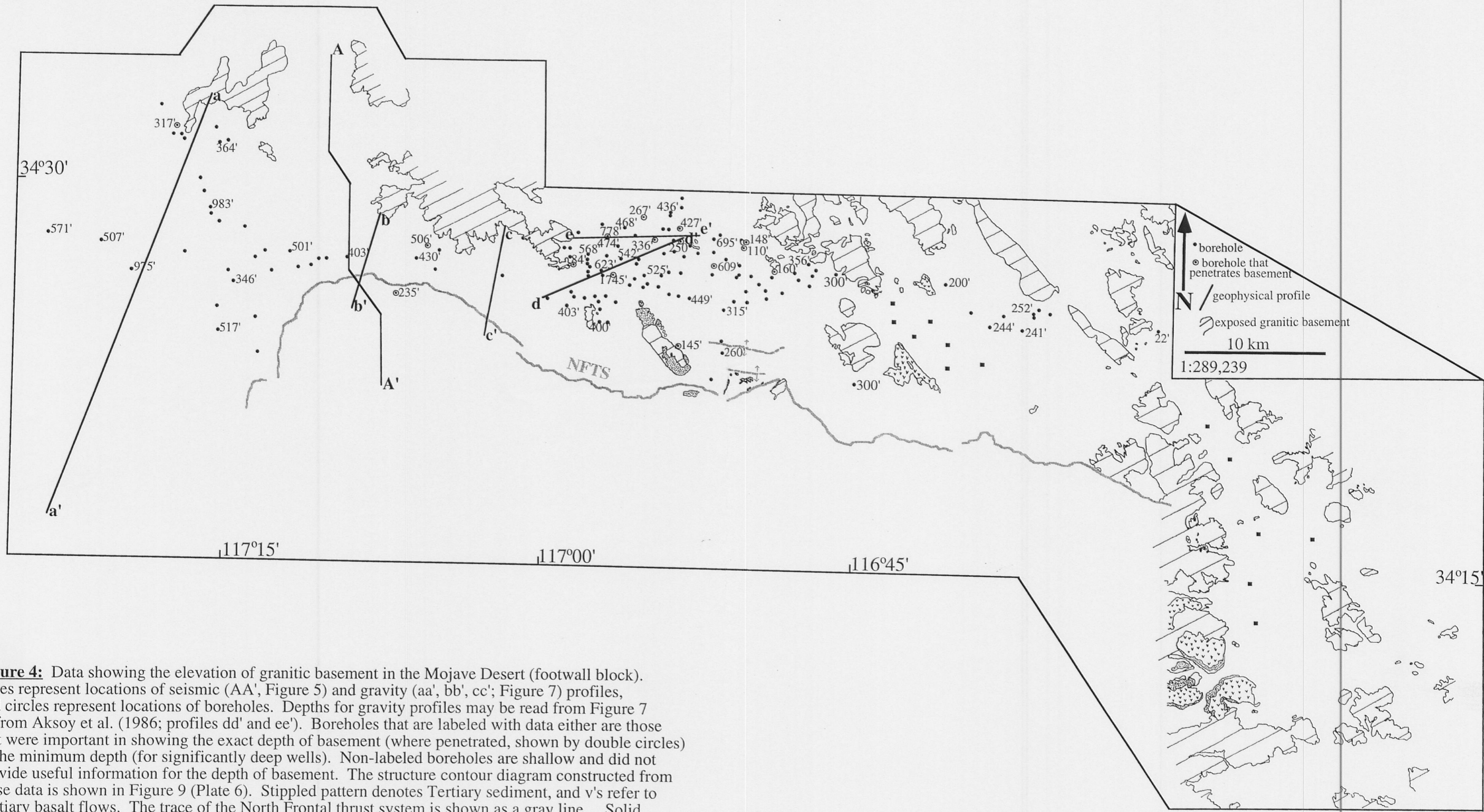


Figure 4: Data showing the elevation of granitic basement in the Mojave Desert (footwall block). Lines represent locations of seismic (AA', Figure 5) and gravity (aa', bb', cc'; Figure 7) profiles, and circles represent locations of boreholes. Depths for gravity profiles may be read from Figure 7 or from Aksoy et al. (1986; profiles dd' and ee'). Boreholes that are labeled with data either are those that were important in showing the exact depth of basement (where penetrated, shown by double circles) or the minimum depth (for significantly deep wells). Non-labeled boreholes are shallow and did not provide useful information for the depth of basement. The structure contour diagram constructed from these data is shown in Figure 9 (Plate 6). Stippled pattern denotes Tertiary sediment, and v's refer to Tertiary basalt flows. The trace of the North Frontal thrust system is shown as a gray line. Solid squares show locations within alluviated flats on the east, where the depth to basement was assumed to be 100 m for the purpose of contouring (based on lack of gravity anomalies, the alluvium is not likely to be thicker).