



Fig. 2.9 3-D model of the Lower manganese body in the study area, i.e. from Mamatwan Mine in the south to Smartt Mine in the north. Displayed are the roof elevations of V-zone (top) and L-zone (bottom) to illustrate dip and lateral variations of the Lower manganese body. Data were obtained from 43 drill cores throughout the study area. An overall southwestern dip of the ore bed is obvious, as are distinct thinning in the orebody towards the north and mild folding with E-W directed fold axes. The top zone (V-zone) has been sectioned to reveal the characteristics of the underlying L-zone. The ore bed is sub-outcropping against the Kalahari Formation along the eastern perimeter of the model. Here, the successive erosion of different lithostratigraphic zones is apparent.