



Fig. 18. Diagram showing a vertical section through the Capitan reef which lies just east of the Delaware basin in Ward and Winkler Counties, in west Texas. This profile of the reef is shown from the perspective of an observer standing in southern Ward County, looking north at the line of oil wells which are shown in the diagram, and at the cut end of the reef. The basin is seen to the left of the reef. Note the thickness scale at right, and the position of the sea-level line. The wells penetrate approximately 2,750 feet of sediments above the sea-level line, which are not shown. The limestone and dolostone of the reef are termed "shelf-margin carbonate" in this diagram, and the names of the geologic formations are given in blocks in the beds of the basin and "shelf." From B. A. Silver and R. G. Todd, "Permian cyclic strata, northern Midland and Delaware basins, west Texas and southeastern New Mexico," *American Association of Petroleum Geologists Bulletin*, vol. 53, no. 11, 1969, p. 2223-2251 and Figure 13. (By permission of the American Association of Petroleum Geologists.)