



FIG. 3.—Block diagram showing Cowley county and adjacent region looking north. Block is cut along Kansas-Oklahoma line. All beds from Chattanooga shale upward have been stripped from the Oklahoma area, exposing the Pre-Chattanooga surface. The Kansas part represents the present surface and stratigraphic section. The Pre-Chattanooga formations are based on the correlations of Luther White. Well A penetrates "Wilcox" sand immediately beneath the Chattanooga shale; well B enters rocks correlated by White with the Tyner formation; and well C passes directly into the "siliceous lime" (Arbuckle limestone according to White).