## AREAL GEOLOGY OF CLAY COUNTY, KANSAS **Bulletin** 136 Kenneth L. Walters and Charles K. Bayne State Geological Survey of Kansas Plate 1 1958 R. 2 E. **EXPLANATION** Chiefly silt and clay; contain much less sand and gravel than Wisconsinan terrace deposits. Yield small to moderate quantities of water to wells. BROWNDALE GULFIAN Κd **Dakota Formation** LEONARDIAN Psw **Wellington Formation** Chiefly gray shale containing a cherr bed, Ch, and the Hollenberg Limestone member, Ho. Gypsum occurs locally at base of formation. Yields minor quantities of mineralized water to wells. Psw WOLFCAMPIAN Upper boundary marked by Herington Limestone member, He, of Nolans Limestone; includes as mapped, Cresswell Limestone member, Cr, of Winfield Limestone; Towanda Limestone member, To, of Doyle Shale; and Fort Riley Limestone member, Fr, of Barneston Limestone. Herington Limestone, Cresswell Limestone, and Towanda Limestone members locally yield small quantities of water to wells. Fort Riley Limestone member yields moderate quantities of water to wells. Federal or State Highway County line (no road) — — Township line (no road) - Section line (no road) ~~ Intermittent stream Base compiled from maps prepared by the Soil Conservation Service Drainage from map prepared by U. S. Dept. of Agriculture