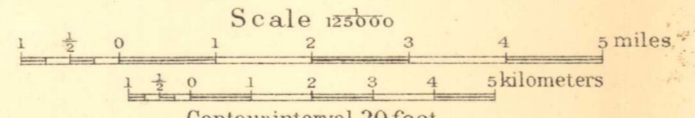


H.M. Wilson, Geographer
 H.B. Blair, Topographer in charge
 Topography by Basil Duke
 Control by Geo. T. Hawkins
 Surveyed in 1903

GEOLOGIC AND TOPOGRAPHIC MAP AND SECTION OF INDEPENDENCE QUADRANGLE, KANSAS
 SHOWING LOCATION OF OIL AND GAS WELLS IN OCTOBER, 1904

Geology by F.C. Schrader
 assisted by Otto Veatch and
 G.L. Metcalf
 Surveyed in 1904.



QUATERNARY		CARBONIFEROUS (Pennsylvanian series)						
Qal	Css	Cph	Cb-Ci	Cp-Ca	Cdr	Cc-Cm	Cps-Cpr	Cl
Alluvium	Sandstone (probably Elgin)	Painterhood limestone	Buxton formation, Cb with limestone lentils, Ci	Wilson formation with Piqua, Allen and local limestone lentils Cp - Piqua limestone Cw - Wilson formation Ca - Allen limestone Ci - local limestone lentils	Drum formation, Cdr with shale lentil, Cs	Coffeyville formation with Dennis and Mound Valley limestone lentils Cd - Dennis limestone Cm - Mound Valley limestone Cc - Coffeyville formation	Parsons formation Cpr with shale lentil, Cps	Limestone lentils in sundry formations
Coal seams	Coal pits	Quarries, building stone and ballast	Oil wells	Gas wells	Dry holes	Standard Oil tanks		