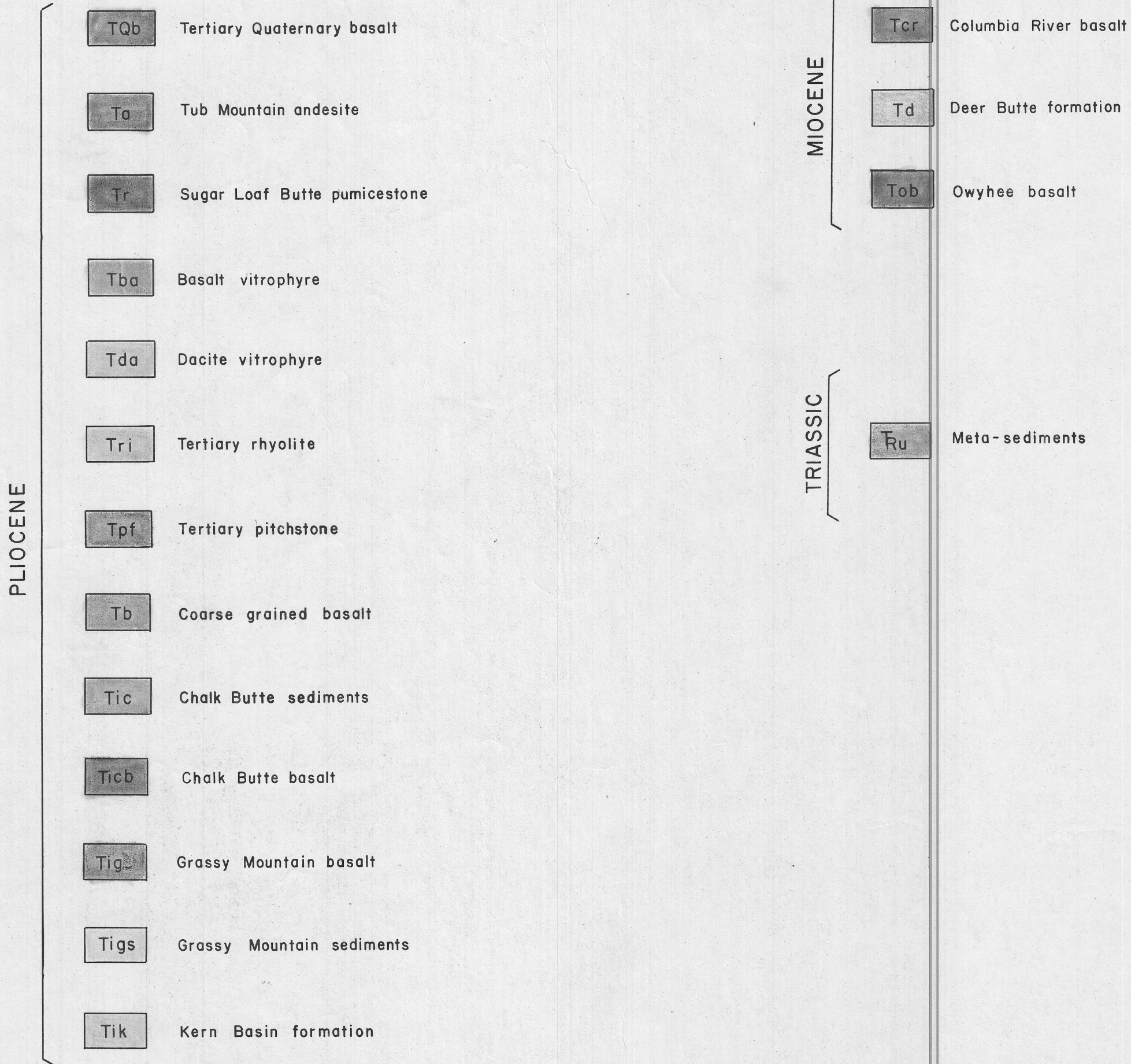


VALE GEOLOGY EXPLANATION



GENERALIZED GEOLOGIC SECTIONS

