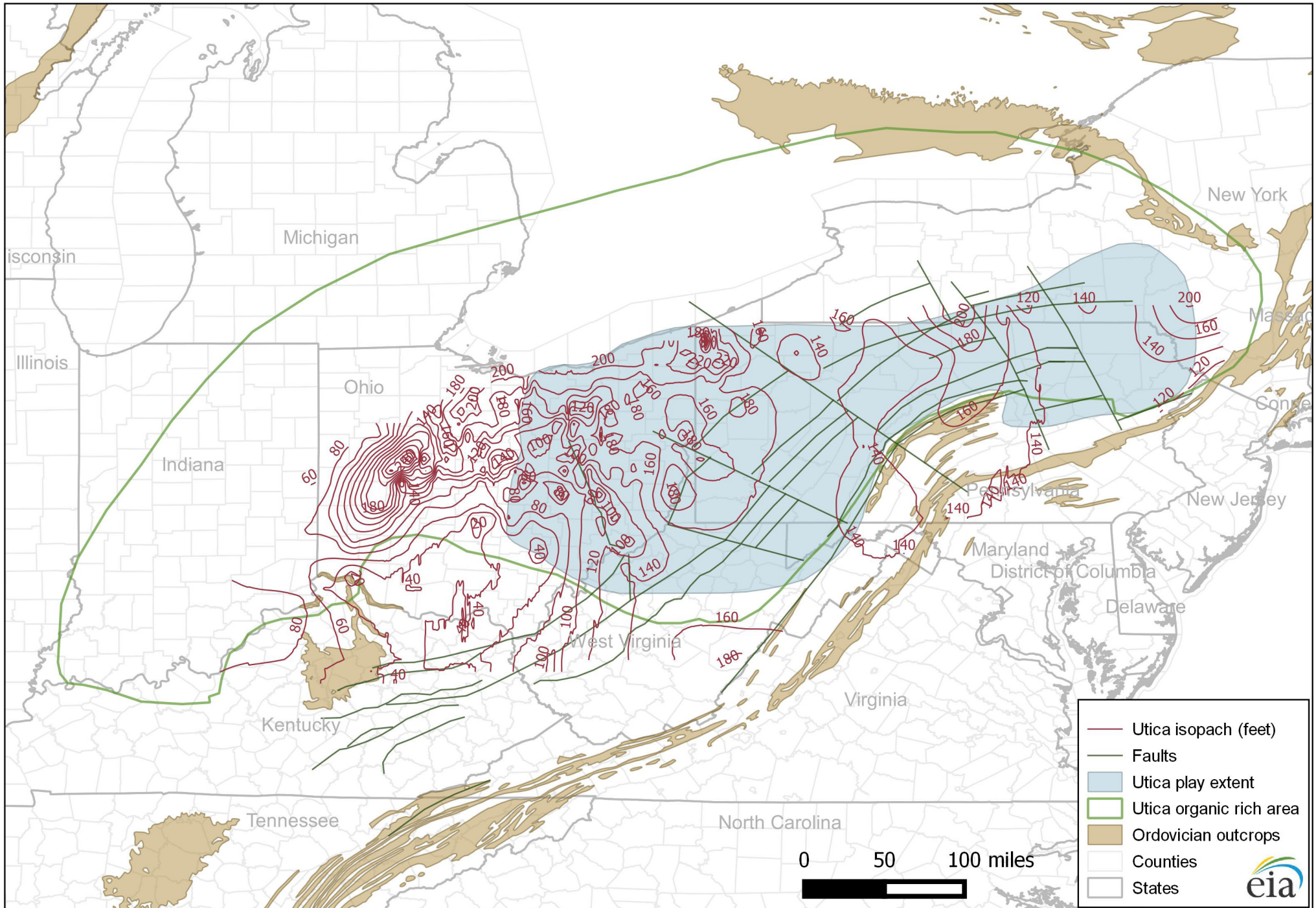


# Thickness map of the Utica formation



Source: U.S. Energy Information Administration, based on DrillingInfo Inc., IHS Inc., The Appalachian Oil and Natural Gas Research Consortium, and U.S. Geological Survey.