

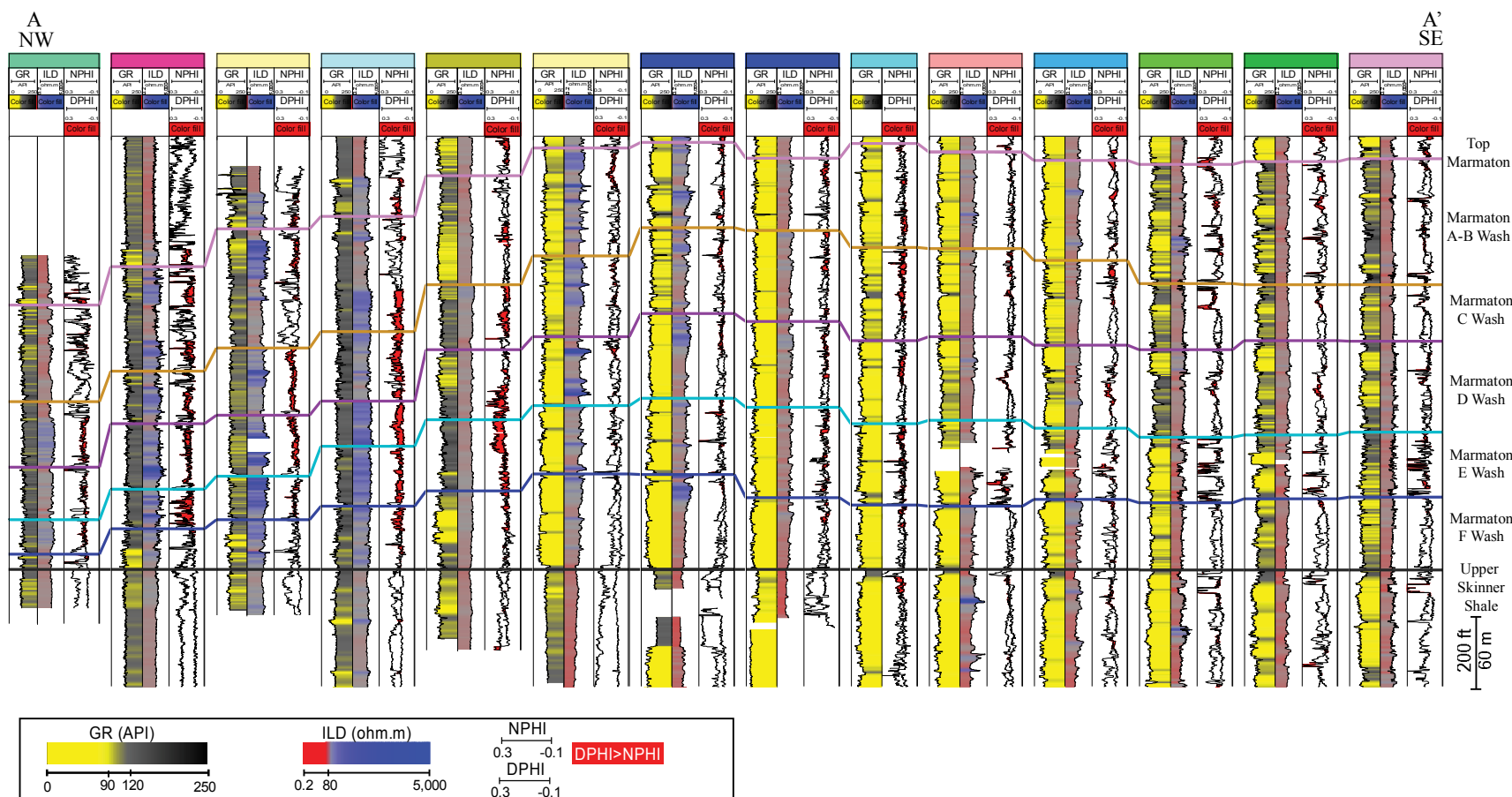


Figure 9. Stratigraphic well-log cross section extending from northwest to southeast and showing stratigraphic zones for the Marmaton Group. GR: Gamma-ray; ILD: Deep-resistivity; NPHI: Neutron-porosity; DPHI: Density-porosity. Upper Skinner Shale (base Marmaton). Refer to Figure 2 for the location of the cross section. The wells are flattened on the Upper Skinner Shale and are equally spaced. Wells on the west have much higher gamma-ray values, higher resistivity, and more cross-over of density and neutron porosities. The regional difference in well-logs responses is probably a result of source-rock mineralogy. More than four flooding surfaces can be defined toward the east side.