

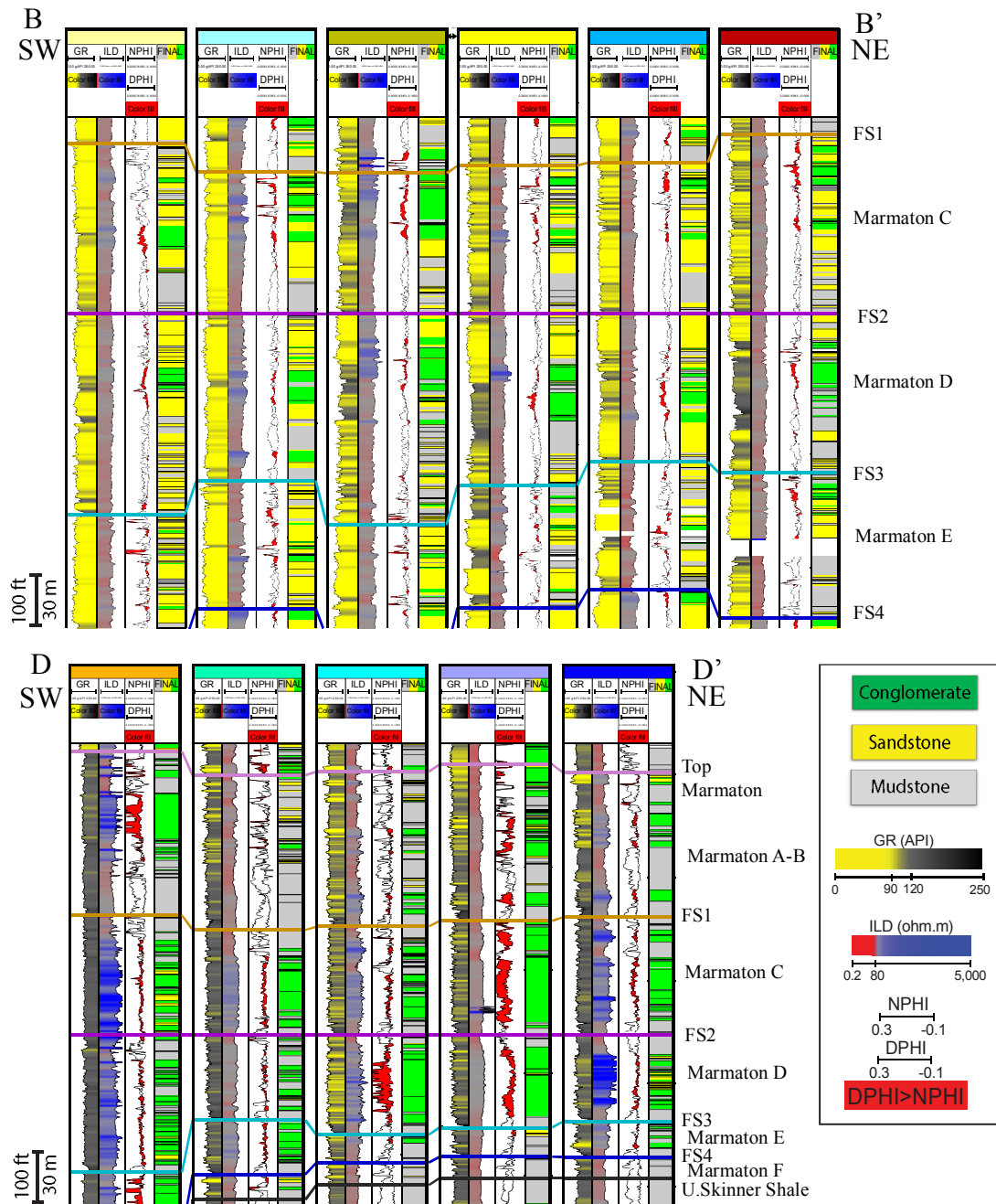


Figure E-3. Stratigraphic cross sections with estimated lithologies using the combination of ANN and gamma-ray cut-off values, and porosity-lithology relation. GR: Gamm-ray; ILD: Deep-resistivity; NPHI: Neutron-porosity; DPHI: Density-porosity. Refer to figure 2 for the location of the cross sections. Sections are flattened on the 2nd Marmaton flooding surface. Note that intervals with high gamma-ray values accompanied by the separation of porosity logs and low resistivity are classified as mudstones while those with high gamma-ray values accompanied by cross-over of porosity logs and high resistivity are classified as conglomerates. Intervals with relatively lower gamma-ray and lower resistivity with cross-over or low separation are classified as sandstones. The west side of the study area (cross section D-D') includes more conglomerate than the east side (cross section C-C'). This could be the effect of proximity to the source area.