

Appendix J: Lithology Models and Maps

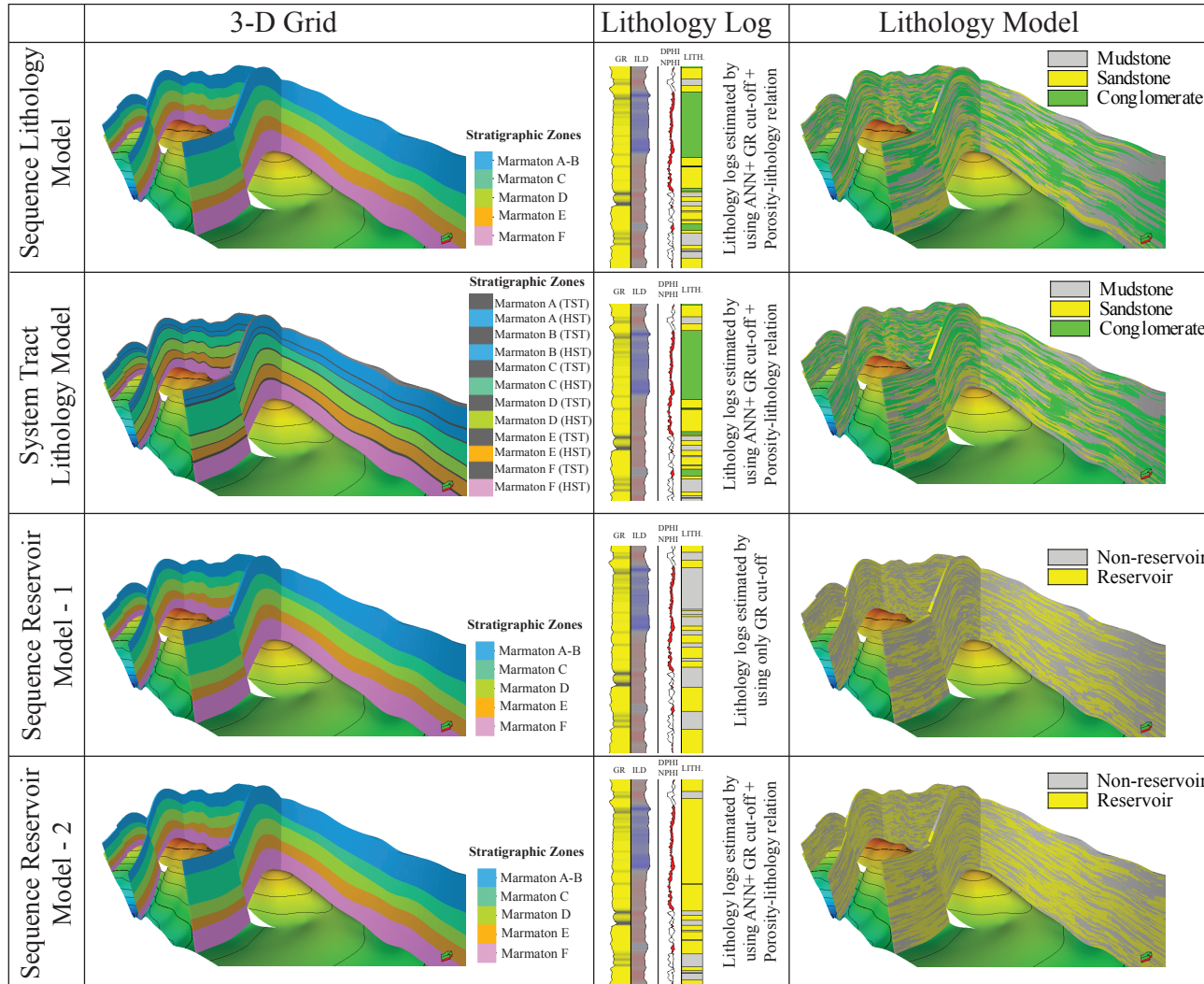


Figure J-1. Four lithology models with the 3-D grids and lithology logs honoring them. Sequence models consist of 5 stratigraphic zones separated by maximum flooding surfaces. System tract lithology model has 12 zones that define the interpreted transgressive and highstand system tracts. Sequence reservoir models have only two types of rocks which are reservoir and non-reservoir rocks. Reservoir rocks include sandstones and conglomerates. Sequence reservoir model is honored by the lithology logs calculated by using only gamma-ray (GR) cut-off value while sequence reservoir model 2 is honored by the lithology logs estimated by using Artificial Neural Network (ANN), gamma-ray cut-off value, and porosity-lithology relation. Sequence reservoir model-1 has less reservoir than sequence reservoir model-2.