

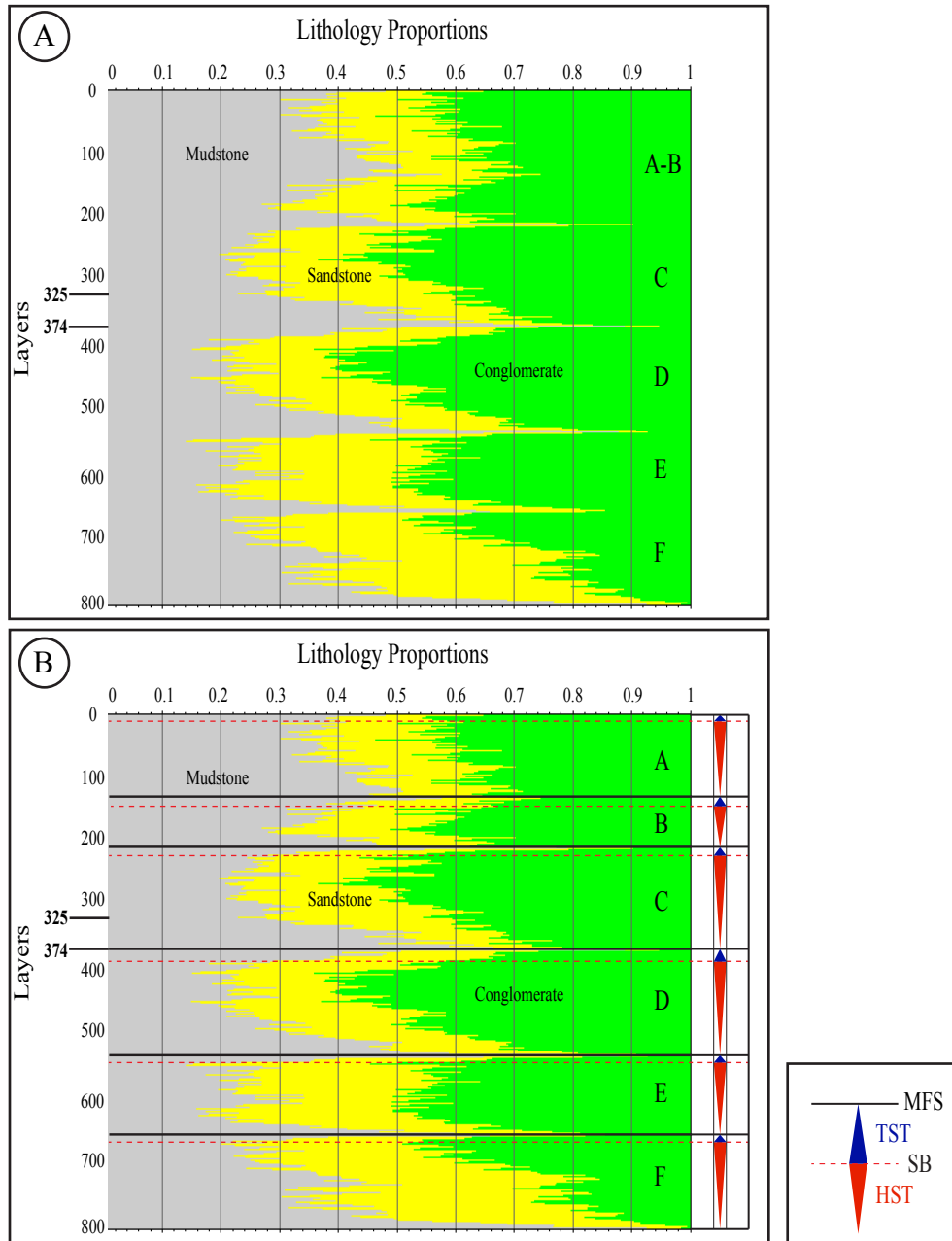


Figure 15. A) Lithology proportion curve showing the vertical proportion of three lithologies from the upscaled lithology logs and the wash zones from Marmaton A to F. B) Transgressive and highstand system tracts interpreted from the vertical proportion curve. The zones can be interpreted as 3rd order regressive-transgressive cycles. MFS: Maximum flooding surface; SB: Sequence boundary; TST: Transgressive system tract; HST: Highstand system tract. Zones with highest mudstone proportion are associated with the maximum flooding surfaces. Between the maximum flooding surfaces, sequence boundaries are interpreted where the proportion of conglomerate is greatest and the mudstone proportion starts increasing above it. The highstand system tracts show shallowing-upward sequence while the transgressive system tracts show deepening-upward sequence. Lowstand system tracts are not observable because of the proximal location. See Appendix H-2 for example two layers during maximum flooding (374) and highstand system tract (325). A-F correspond to Marmaton A-F zones.