Dear Ty,

Thank you for reviewing the paper and for your constructive comments. Your suggestion is highly relevant, and machine learning is indeed a promising way to integrate geophysical data in hydrological studies. So far we are only discussing learning approach for prediction purposes and spatial heterogeneity representation. There are some recent papers that investigated the use of machine learning for petrophysical relationship (e.g. Gottschalk and Knight, 2022) for airborne data, which opens the possibility to inform the spatial variability of aquifer at the catchment (or even beyond) scale. We will see how we can best include those innovative approaches in the manuscript during the revision.

Cheers,

Thomas