

Data Conditioning of Legacy Pre-stack Time Migrated Gathers from the Mid-Continent

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Careful re-processing of a legacy data set is the best way to improve the quality of interpretable products. Often re-processing is not a viable option as the original field records may be unavailable or the cost of reprocessing may be prohibitive. In the circumstance where pre-stack time migrated gathers are available, an alternative approach is to “condition” the available data. Here we will present a work-flow based upon the application of structural oriented filtering (SOF) techniques applied to common offset sections to improve the usability of the available PSTM gathers. Comparisons of stacked sections, stack-derived attributes and amplitude versus offset (AVO) attributes will be to demonstrate the efficacy of the “data conditioning” work flows on data from the Mid-Continent.