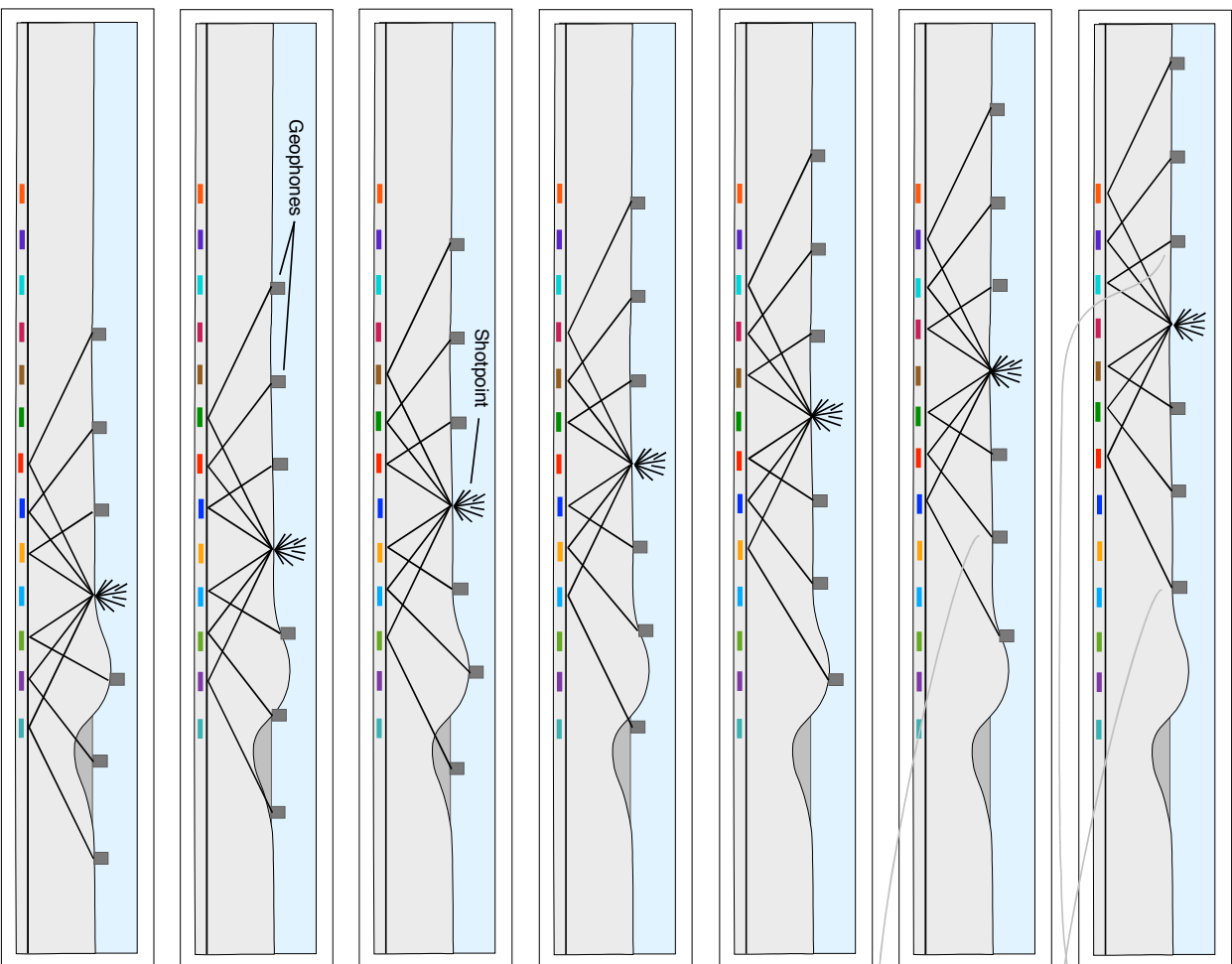


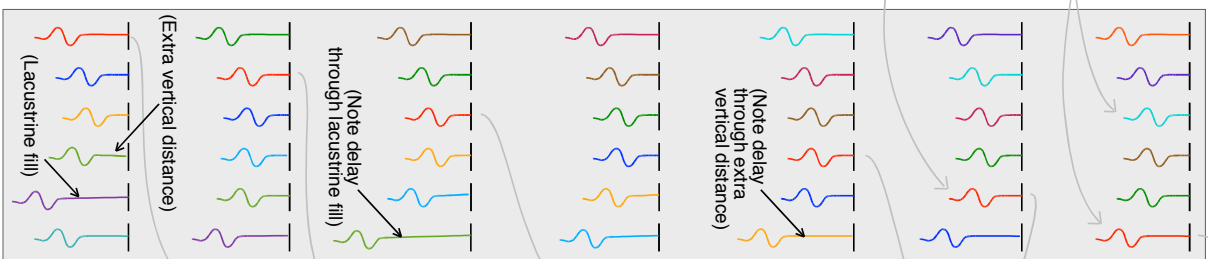
Shot gathers, common midpoint gathers, and stacks

Raisback's *Petroleum Geoscience and Subsurface Geology*

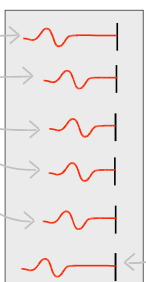
1. Collection of data in the field: seven sequential shots



2. Shot gathers

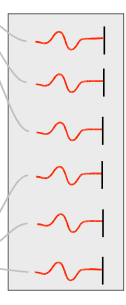


3. One common midpoint (CMP) or CDP) gather



4. Statics corrections for anomalies noted in the shot gathers (none are needed for our red CMP gather; they would be needed in the gold, light green, and purple CMPs).

5. Same common midpoint gather after correction for normal moveout.



6. Stacking to give one vertical trace of a seismic section

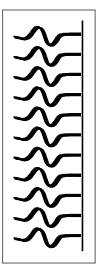


7. After doing Parts 4 through 6 for all the common midpoints:

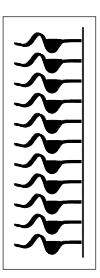


(a six-fold stack, which would be a small fold)

8. Abandoning the colors for each CMP gather, we have a seismic section:

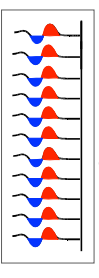


Traditional American



Hard: black right

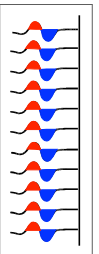
Modern European



Hard: red left

9. We can dress up our seismic section according to various conventions:

Modern American



Hard: blue right

URB 11/03/11, much revised 10/01/15
SRA&K CMP/Chatterbox, Slomkowski 2009