

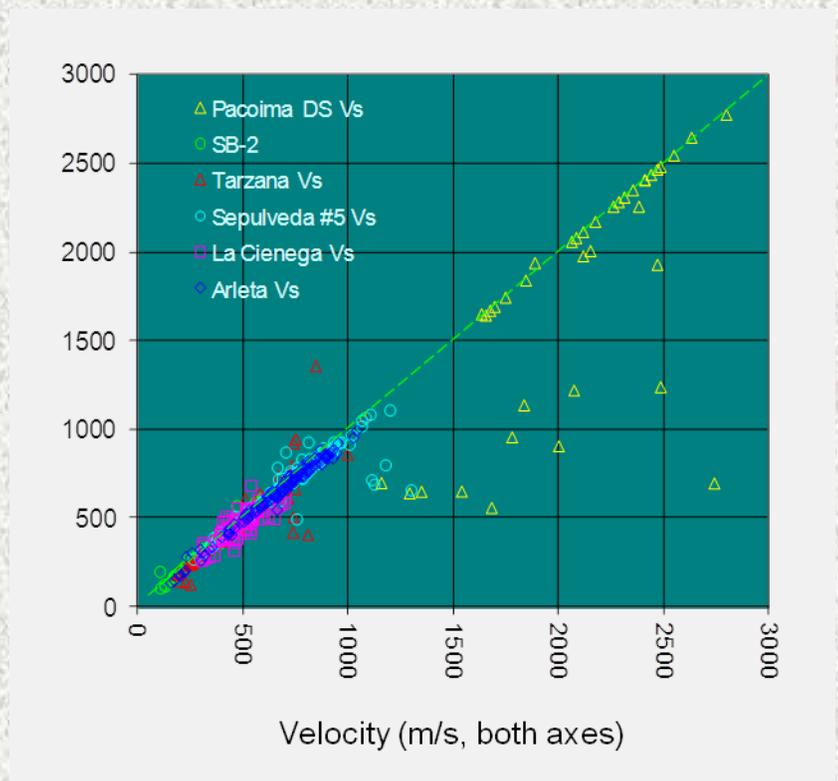
# *Geophysics and Geology*

## *Interpretation of Geophysical Data*

There are two broad categories of geophysical data interpretation.

**Qualitative** interpretation emphasizes distinguishing relative changes in measured physical properties that may indicate the presence of different materials, either engineered or natural. Utility locating is an example of the qualitative interpretation of geophysical data.

**Quantitative** interpretation seeks to assign numerical values, based on measured response, to specific features or targets of interest. Calculations of depth, density, porosity, velocity and shear modulus are all examples of quantitative interpretation.



More information on quantitative interpretation is available from the Federal Highway Administration at the following link:

<http://www.cflhd.gov/resources/agm/geoApplications/GeophysicalQuantities.cfm>