



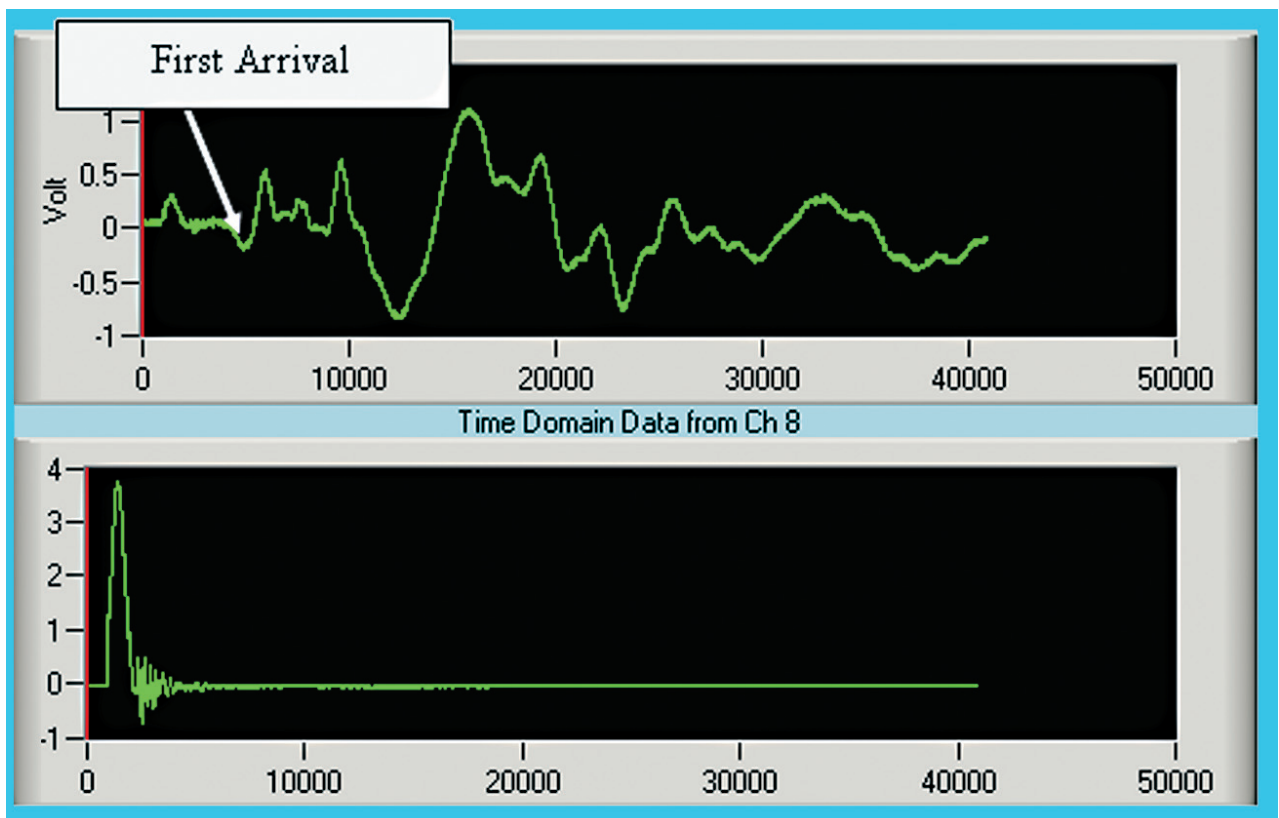
## Ultraseismic (US) Data Examples

When determining quality of Ultra Seismic data, it may be difficult initially to differentiate between good and poor quality data unless the time is taken to export the traces and stack them in the IX Foundation® Software. This is usually done back in the office.

Although it may seem that this data is of poor quality, the quality of the data is actually quite good. Good data is determined by five separate factors:

1. The signal should originate at zero volts
2. There should be a clear break either up or down indicating the wave arrival
3. The scale percentage when acquiring the data should be between 10% and 80%
4. The impact on the shaft should be considered as a single well-coupled impact, not multiple impacts
5. The hit location and orientation may also affect data quality. Therefore, it is useful if time permits, to try multiple orientations and hit locations

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**If the field technician is in question of the data quality,** he or she should acquire the entire data set and export the data to IX Foundation®. If the clear break indicating the pile depth is seen in the stacked data, then the data quality is acceptable. The plot below shows an example of several clear breaks, as depicted by the three solid black lines.

