

Seismic Refraction In-field QC Software for Geometrics seismographs

SIPQC by Rimrock Geophysics:

Pick first breaks

Assign layers

Create depth model

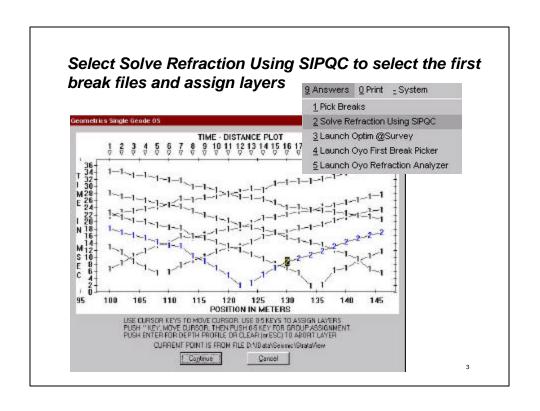
Output to seismograph printer

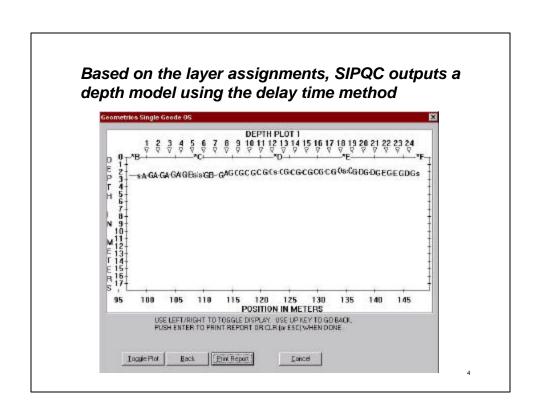
SeisOpt@Survey by Optim:

Pick first breaks

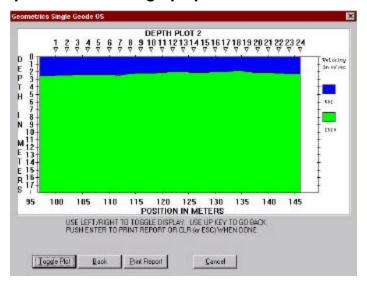
Run automated velocity analysis

Output to seismograph printer

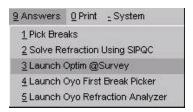




The depth model may be viewed as a color plot and output to the seismograph printer



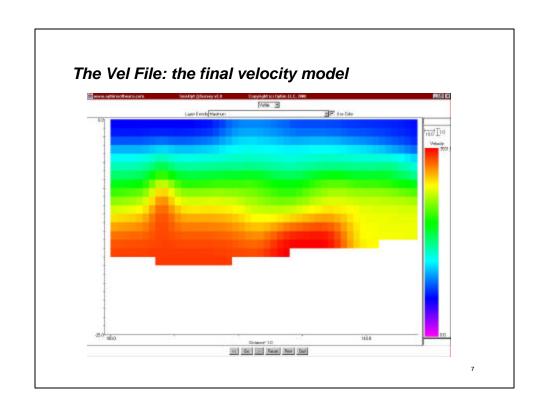
Use the first break files to run an automated velocity analysis with Optim's SeisOpt@Survey

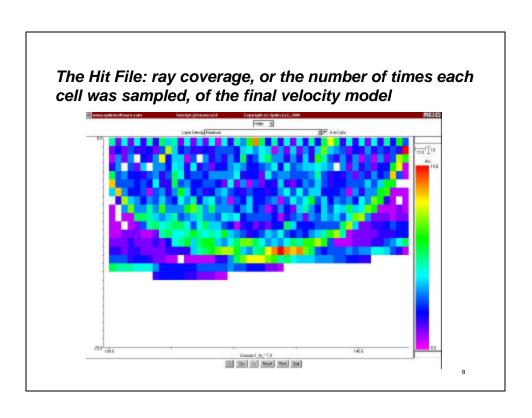


The Optim analysis is a velocity optimization. It uses the first break picks to repeatedly forward model the subsurface. Numerous test velocity models are created, through which travel times are calculated and compared to the observed data. The model that has the smallest discrepancy with the observed data is selected for the final output.

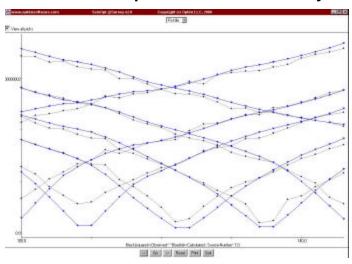
A minimum of 5 shots is recommended to provide sufficient data points for the analysis.

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The Pick File: comparison of the observed and calculated first break picks of the final velocity model



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- SIPQC comes with all Geometrics seismographs and seismograph controller software.
- SeisOpt@Survey comes with all Geometrics Windows-based seismographs and seismograph controller software.
- Full versions of both programs for more in-depth analysis are also available for demonstration and purchase.
- OYO's SeisImager/2D refraction software and WinSeis Lite or Turbo by the KGS for reflection data processing are also included with Geometrics Windows-based seismographs and seismograph controller software (see separate datasheets).

Please contact Geometrics for more information.

Geometrics, Inc. 2190 Fortune Drive San Jose, California 95131 USA

Informações no Brazil: Tel.: 21 556-1295 - Fax: 21 205-5100 - email info@alphageofisica.com.br

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