



*Fast
Geophysical
Positioning
Solutions*

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SPSPro

SPSPro is a Windows based program which provides interactive graphical and numerical quality appraisal of data recorded in the Shell Processing Support format (SPS), the most commonly used format for recording land and OBC seismic positioning data.

Comprehensive database functions are provided for the manipulation of datasets.

An optional module is available for the computation of receiver coordinates using acoustic ranging or first breaks.

QC Functions

- Format checking.
- File integrity checking.
- Mapping of source and receiver positions by type and index.
- Interactive mapping of active spread.
- Acquisition replay.
- Mapping of source, receiver and auxiliary attributes (static correction, point depth, seismic datum, uphole time, water depth and surface elevation)
- File comparisons, mapped and time series.
- Time series plots of source and receiver lines for all point attributes.
- Interactive output of source and receiver data to csv file.

Database Functions

- Editing
- File splitting and consolidation
- Sorting
- Search and replace
- Arithmetic functions
- Receiver bathymetry interpolation from source bathymetry
- Receiver position interpolation
- Header prefixing

Receiver coordinate computation

- Uses acoustic ranging or first breaks recorded in user defined format.
- First break method models velocity gradient using polynomial of user specifiable order.
- Weighted least squares solution.
- Rejection of bad data by Delft Method.
- Comprehensive QC statistics, numeric and time series – unit variance, error ellipse etc.