



Badley Geoscience News
Issue 84, October 2016

[follow us on Twitter](#) | [LinkedIn](#) | [pdf version](#) | [feedback](#) | [forward to a friend](#)

Major upgrade 7.030 - Available Now!

The 7.030 upgrade is now available to download and features many important additions to the system, including:

- Displacement variation and backstripping (see feature below)
- Projections of wells and attributes onto seismic sections and probes/cubes
- High fidelity transfer of T7 structural models into Petrel fully honouring original geometry (see feature below)
- Well-based interval velocity support
- Triangle "Thrust" mode for quick 1D fault seal in compressional environments
- Seismic processing options to create complex seismic attributes
- Advanced graphics support for Windows users
- ...plus many more enhancements

Take a look at [this short video](#) which introduces some of the features and of course [contact us](#) for more information.

CLICK HERE TO WATCH ONLINE

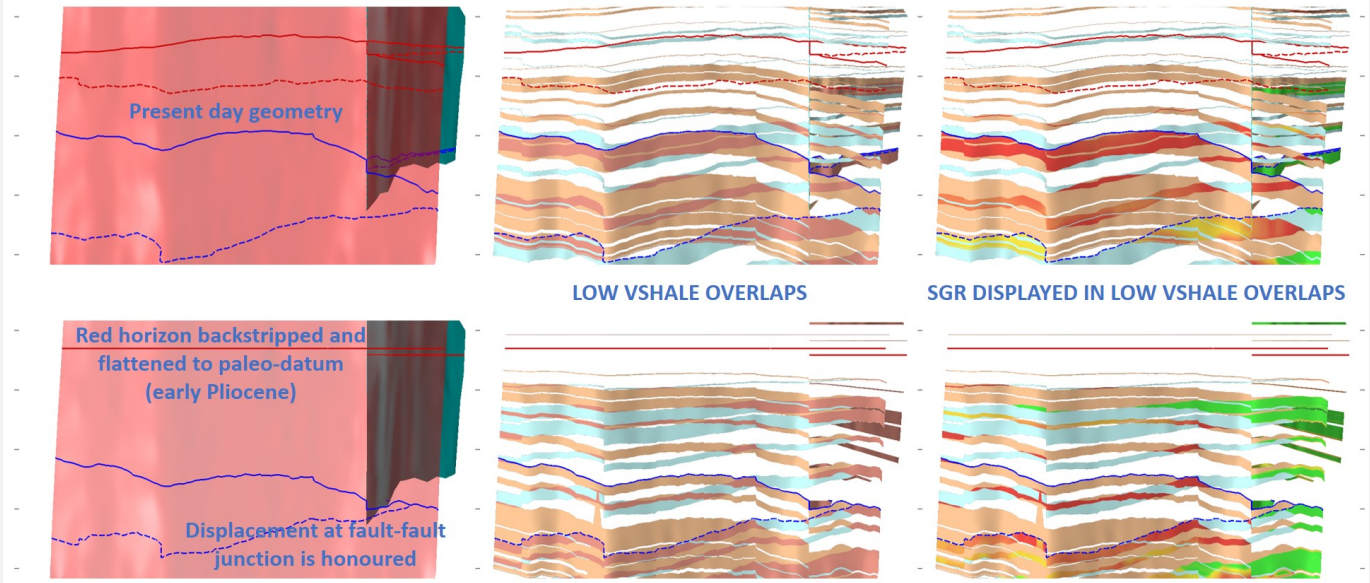


T7.030: Displacement Backstripping and Palaeo Fault Seal Evolution

Displacement backstripping in T7 enables the calculation of fault displacement, juxtaposition and fault rock properties over time. Backstripping at successive horizons allows each stage of the fault's development to be visualised and analysed independently. Displacement can be removed from either the footwall, the hangingwall or both elements, and can also be flattened to a palaeo-datum. Crucially the complex relationships at fault intersections can be modelled. Branch lines (lines of fault-fault intersection) are key to understanding migration and the ability to determine their nature at different time steps is critical in establishing palaeo-flow pathways. Using the tool you can investigate scenarios in which the connecting fault is developed at the same time, early or late in the development of the parent fault. At each time step a full fault-seal analysis determines which faults are baffles, barriers or conduits for use in migration analysis.

The diagram below shows a growth fault present day (upper), which is then backstripped and flattened to a palaeo-datum (early Pliocene, lower set of images). We see the fault with displacement removed from the lower (blue) horizon, reconstructing the juxtapositions present at an earlier stage of development. Ancient juxtapositions and Shale Gouge Ratio (SGR) describe the seal behaviour at this earlier time.

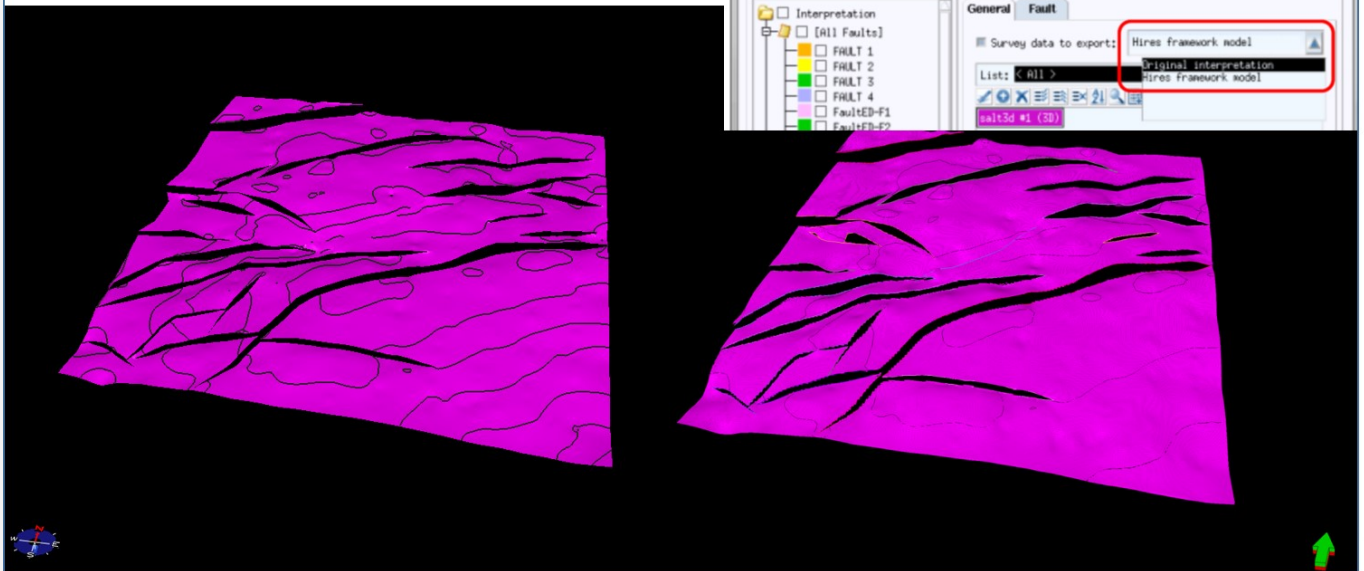
Present day Versus early Pliocene



T7.030: Improved Petrel Link

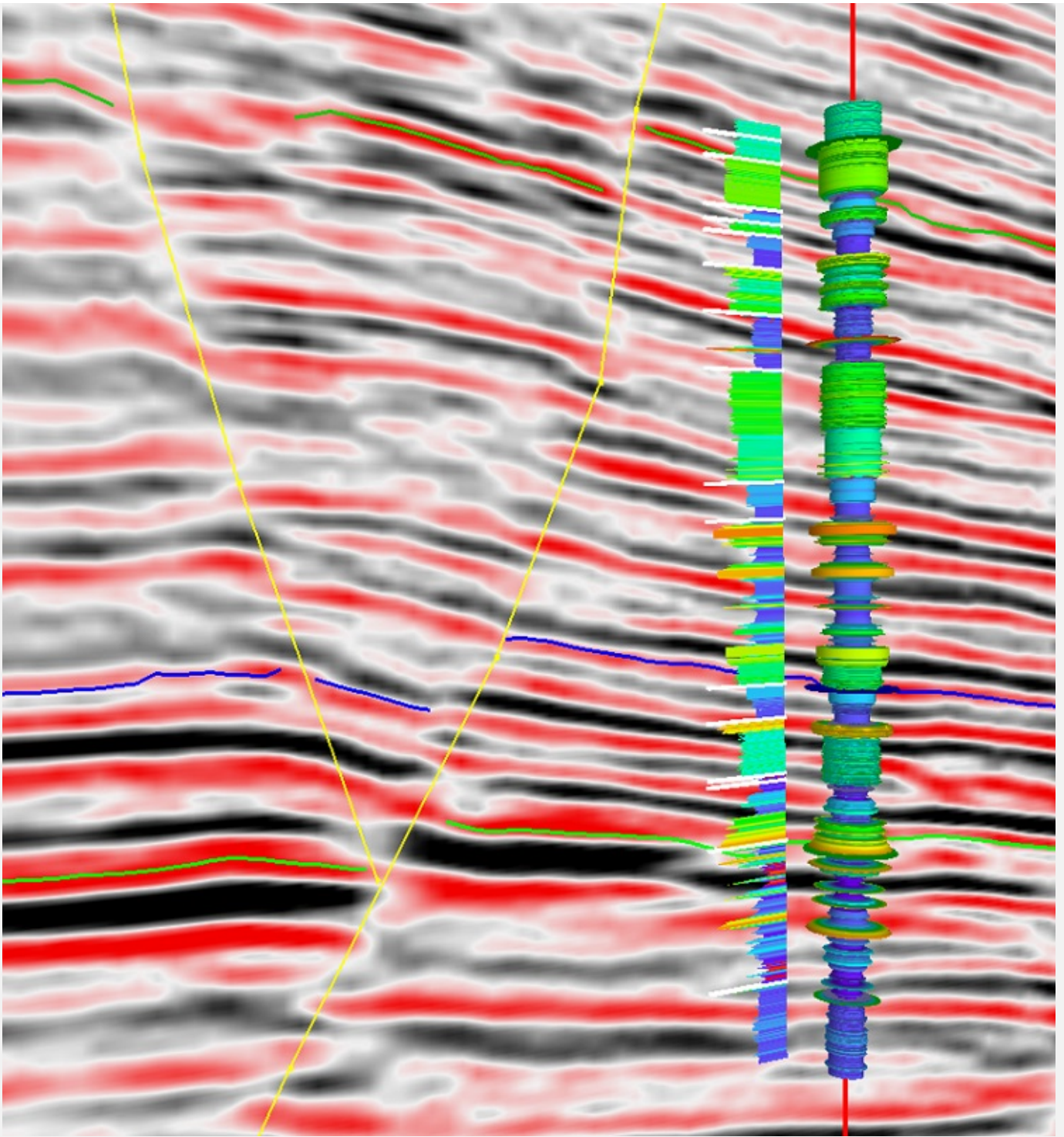
In this view: A geometrically correct horizon built in T7 (left) and a perfect match Structural Model horizon in Petrel (right). T7.030 introduces a new high fidelity transfer option to the Petrel plugin. The upgrade enables the transfer of T7 interpretation data in a novel way so that structural models in Petrel honour the geometry of T7's water-tight fault-horizon-polygon framework.

ENHANCED EXPORT FRAMEWORK "HI RES" MODE



T7.030: Projection of Wells onto Seismic

In this view: Well data projected onto a seismic section (also works on probes/cubes). The data is translatable - using simple handles - along sections. Attribute curve/zonal data, lithology, stratigraphy and reservoir quality can all be projected.



[follow us on Twitter](#) | [LinkedIn](#) | [pdf version](#) | [feedback](#) | [forward to a friend](#)



E: info@badleys.co.uk T: +44(0)1790 753 472
www.badleys.co.uk

[unsubscribe from this list](#) | [update subscription preferences](#)