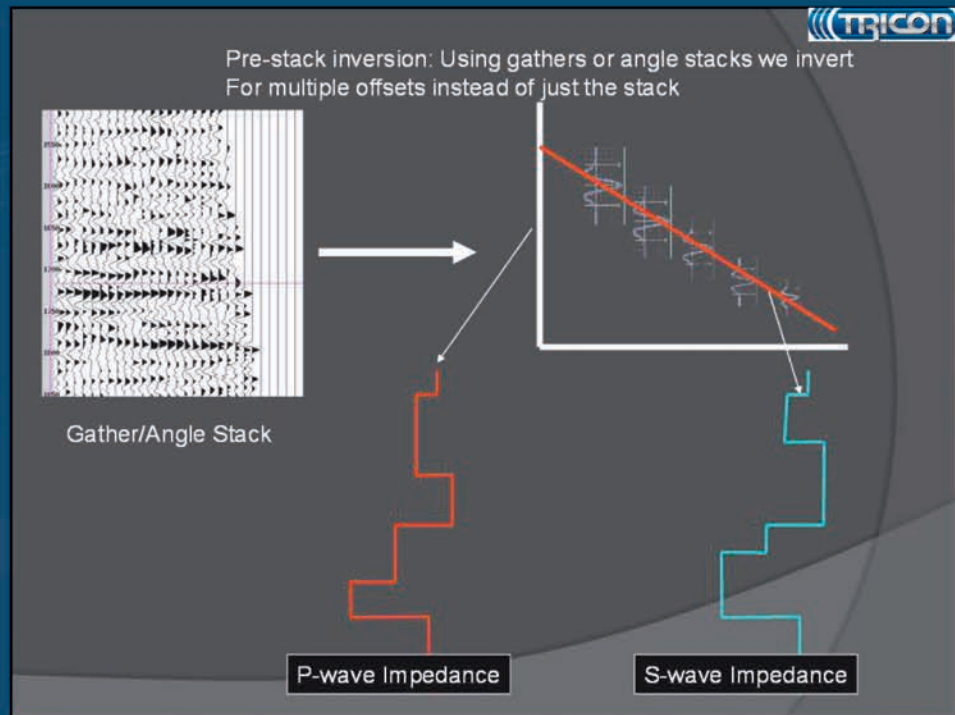


2D / 3D Simultaneous Inversion

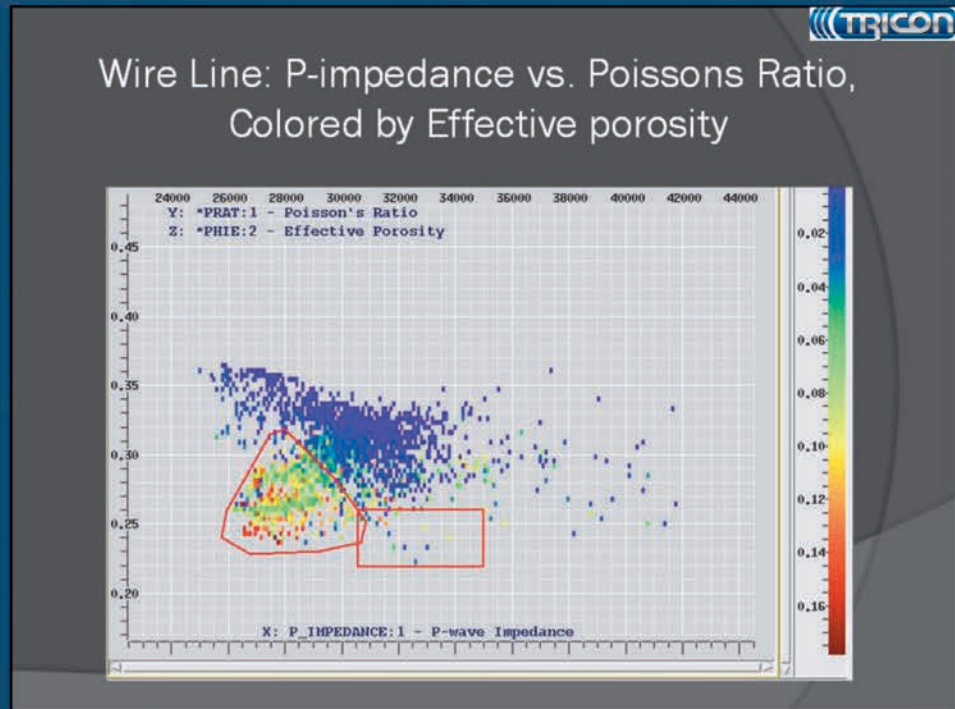
Post-stack inversion works by making a connection between impedance contrast, the wavelet, and the final seismic section. With the Pre-stack Inversion we increase the accuracy of our solutions because we can take the gathers or angle stacks and invert using multiple offsets within a trace instead of just the stacked trace. Now step up to **SIMULTANEOUS PRE-STACK INVERSION** and we solve for P-Impedance and S-Impedance with the same model.



With **SIMULTANEOUS PRE-STACK INVERSION** the change of amplitude with offset is a function of both the P and S impedance.

Advantages of Pre-stack Inversion:

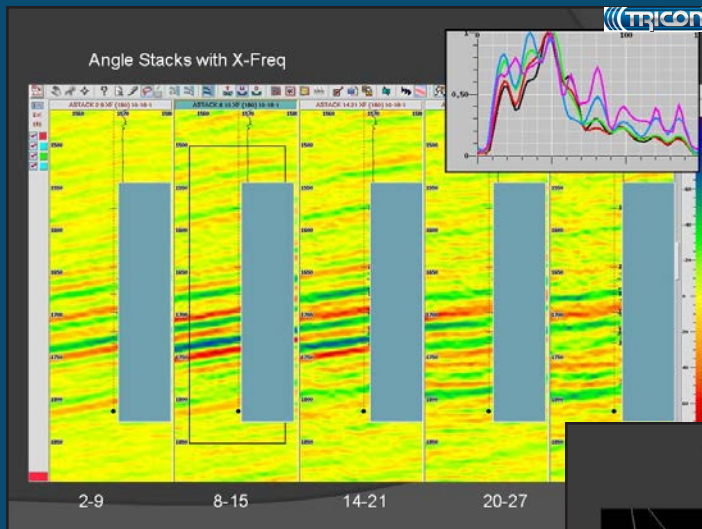
- Shear wave information.
- True zero-offset P-wave (sonic) information.
- Higher resolution than post-stack.
- Lower sensitive to wavelet than Post-stack Inversion.
- Reservoir property instead of top of the reservoir/ interface property (AVO).



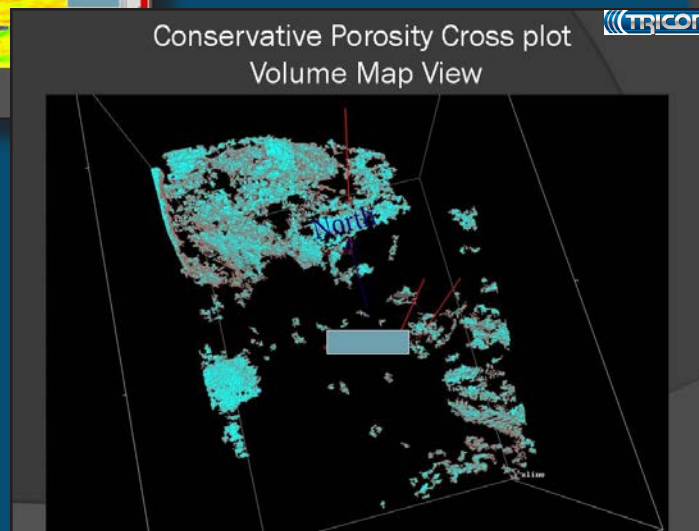
Edited wireline logs (using the Krief Model to produce Shear wave logs) are crossplotted to high-grade porosity.

TRICON's workflow:

- Petro-physics to model S-wave, and determine effective porosity, V-shale...
- Build Background model using single well and horizon picks.



Conditioned, High Frequency (X-Freq) angle stacks yield superior layer resolution.



Poissons ratio volumes easily show the isolated effective porosity as Voxel bodies

- Proprietary Gather Conditioning and angle stack creation.
- Optional High Frequency processing (X-freq) on angle stacks.
- Inversion (well ties, wavelet extraction, amplitude factors).
- Cross-plotting and Voxel body viewing.

Don't settle for being part of the pack. Get ahead of the curve: Hi-Grade your Porosity & Pick Fracture Zones on your Shale plays. Set up an appointment with one of TRICON's experienced personnel and see what you're missing!

TRICON's Seismic Imaging.....
"Taking Your Seismic Data Further Than Expected".

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