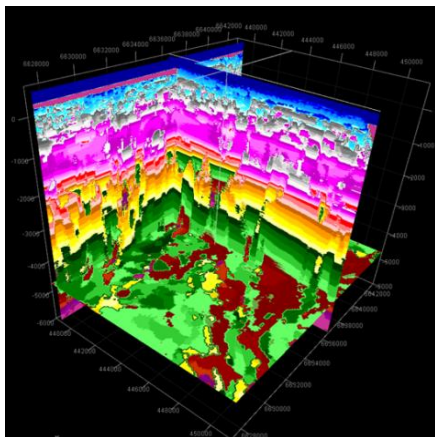




Company presents

RTH (Reverse Time Holography)

The Best Time-Dependent
Scattering Seismic Technology
In the World

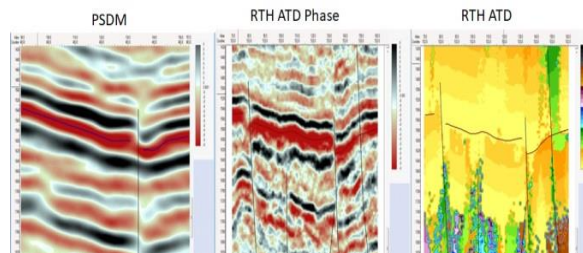


High resolution RTH-velocity cube,
200 sq.km, depth 6 km. Voxel size is
25x25x5 m.

GeoMEX Technologies is the innovative seismic data imaging company using the Reverse Time Holography method. The RTH method is a high-effective state-of-the-art solution for oil & gas prospecting and development including seismic service for horizontal-effective drilling.

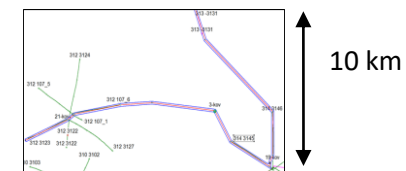
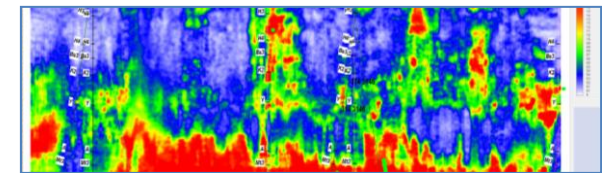
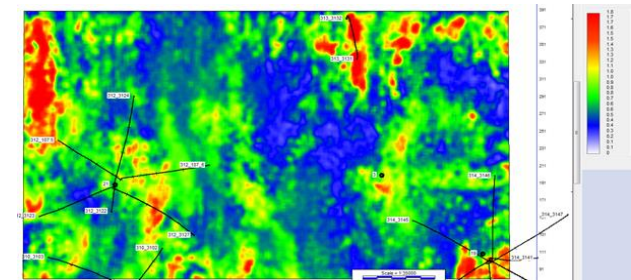
The RTH solution answers the next Grand Challenge Problems of Seismic:

- New generation of seismic imaging enhancement
- Improving the geologic results without increasing the cost of seismic acquisition
- Ultra-high resolution velocity model building using adequate computing resources
- Well-log Lithofacies & Fluid prediction RTH driven

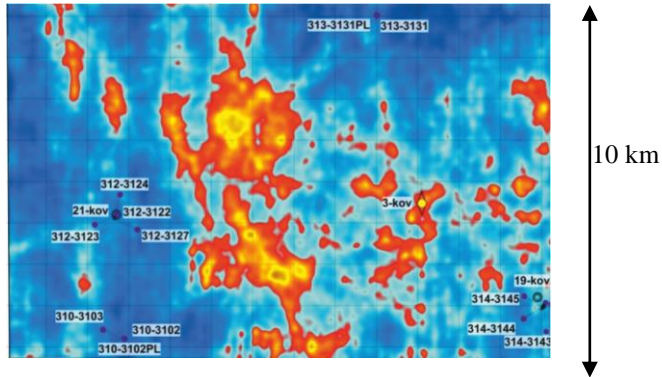


Comparison of PSDM (left) and RTH

RTH technology opens up a new era of seismic exploration based on the concept of full wave time-dependent scattering in the medium. Traditional reflections on which seismic exploration has been based in the last 70 years (CDP), are in this approach only special case of in-phase scattering.



geologic

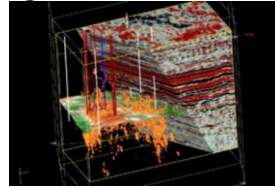


RTH fracture map

RTH SUMMARY

- The mathematical basis of the RTH technology is the principles of holography in reversed time (Reverse Time Holography)
- The input information for RTH processing is 2D/3D CDP seismic medium-fold data
- RTH is an alternative to the RTM, FWI, AVO, Acoustic Inversion, MVA methods
- RTH is a voxel-based seismic hyper attributive technology
- The scattering model in RTH approach assumes dependence on both angle and local time simultaneously

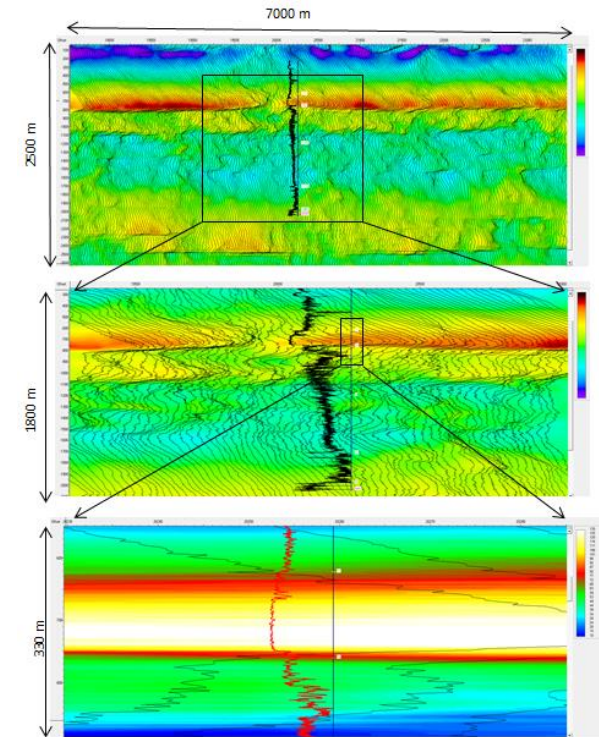
- The RTH technology was created in 2017 and successfully tested in 19 oi
- I and gas fields



The list of advantages of the RTH technology

- Representation of the studied geological environment in the form of a set of volumetric cells (voxels) of arbitrary size
- The spatial resolution of migration images is 3-6 times higher compared to conventional depth migration
- Velocity tomography with a spatial resolution of up to 2 meters
- Stability RTH to sparse regular and sparse irregular seismic systems of sources
- Simultaneous and independent calculation of all known seismic attributes, such as: RTM, AVO, Dip, Opening Angle, Azimuthal and spatial scattering anisotropy and

- even more than 100 new, previously unknown attributes
- Using the model with frequency-dependent Scattering Indicatrix
- ML Perfect Prediction based on RTH attributes and well-log data



RTH-velocity, zooming

<https://www.geomextech.com>