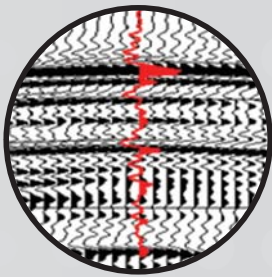
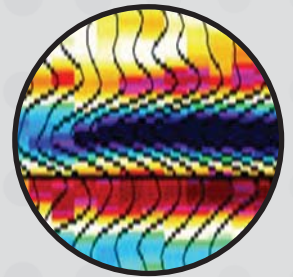


Reservoir Services

Your reservoir comes to life when its properties are understood. Seamless data integration and enhanced data management provide the foundation. The best possible imagery and reservoir data provide the structure. Connect the dots between seismic data, well logs, cores, petrophysical data and all other data assets to answer your questions about structural traps, stratigraphy, lithology, fluids, seals and more.

Amplitude vs. Offset (AVO)

AVO is used successfully as a hydrocarbon indicator in many plays, especially younger clastic environments with gas-filled porous sands. A common misconception, however, is that AVO doesn't work in other environments, such as tight sands or in carbonate plays. Geotrace can prove differently. By using input gathers that are properly imaged, well conditioned and bandwidth extended, we have greatly expanded the scope of this invaluable tool in determining risk. In addition, our unique advanced AVO services include a single 3D volume with fused multiple AVO attributes to identify lithology and fluid.



Resolution Enhancement

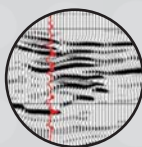
Today's targets may be deeper, smaller in areal extent, thinner or have less impedance contrast with surrounding beds, all of which call for better resolution. Many successful wells have been drilled that would not have been otherwise because the interpreter could now detect subtle faults, resolve thin beds or see differences in reservoir quality using Geotrace's higher resolution data.

We continually strive to update and improve the tools that we use and one result is our new algorithm, Bandwidth Extension (BE[®]) that goes the next step toward resolution. Not only does BE[®] extend the high end of the spectrum like HFI[®] but it can also extend it downward, a huge advantage especially when going into pre-stack inversion. Both BE[®] and HFI[®] are AVO compliant processes.



BE[®]

BE[®] utilizes the Continuous Wavelet Transform (CWT) to perform a time series analysis of the seismic trace that decomposes the trace into its respective amplitude and phase components in both frequency and time. The result is both broader band and more accurate than conventional methods. BE[®] can make a difference of up to two octaves at each end of the spectrum. Spectacular images can be achieved even in challenging thinly bedded (± 20 ft) reservoirs, and in some of the deepest plays. BE[®] can be applied before or after stack.

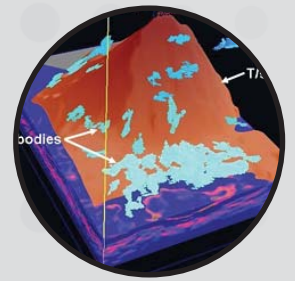


HFI[®]

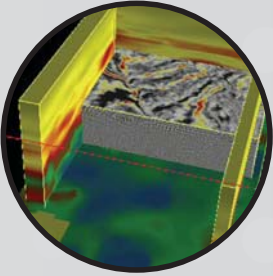
High Frequency Imaging (HFI[®]), unlike the conventional convolutional model, transforms the seismic trace into a frequency vector space ($N\omega$) and then rotate the seismic vectors to maximize the high frequency component in the data. HFI[®] can be applied before or after stack. It not only improves the seismic resolution for structural, stratigraphic and facies interpretation but also enhances prestack analysis and reservoir evaluation.

Inversion/Rock & Fluid Properties

To find oil and gas in most plays, it is no longer sufficient to interpret from conventional reflectivity seismic. It is vital to know much more about both the rock and fluids before drilling. Advanced techniques, including Geotrace's RockRes[®], which uses pre-stack inversion to rock and fluid properties to better define prospects, plan infill wells and injection wells, make it possible to get oil and gas into your pipeline much sooner, and at higher rates.



HDHR Seal Capacity/Pore Pressure

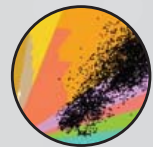
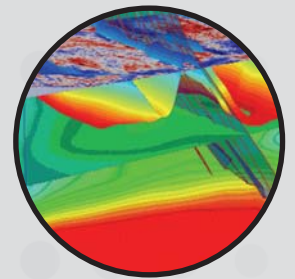


Geotrace provides two types of High Density High Resolution (HDHR) pore pressure solutions for exploration, appraisal and production activities: Seal Capacity Cube (SCC) and Pore Pressure Cube (PPC).

- Our SCC solution is suitable for assessing seal integrity and hydrocarbon accumulation column height focused on prospect evaluation and well location decisions. SCC delivers HDHR 3D volumes of velocity, pore pressure and fracture gradient.
- Our PPC is designed for well planning, mud weight and casing string design, and drill risk management focused on engineering operation and drilling hazard. PPC provides HDHR 3D volumes of velocity, pore pressure, fracture gradient, equivalent mud weights, effective stress, and overburden pressure, as well as a report of the studied well with tables and graphs that shows the pressure gradient with a time/depth-variant estimated uncertainty.

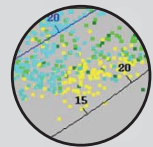
Geological Services

The interdisciplinary expertise of our Tie It All Together[®] philosophy helps you define your reservoir more accurately than you've ever experienced. We offer a comprehensive package of geological services, from data management to analysis to interpretation, each seamlessly tied in with our other product offerings using our real-time, integrated database technology and our automated work flow.



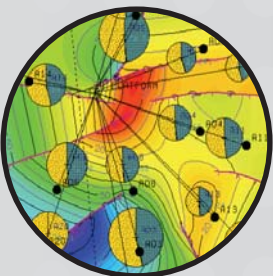
Petrophysical Services

By applying our proprietary suite of petrophysical tools, we're able to help clients discover the truth about their reservoirs and make better decisions faster by analyzing log and core data for lithology volume, porosity, saturation and permeability at well, reservoir or field level.



Petroelastic Services

Petroelastic studies model the interaction between rock/fluid/pore size/pressures and other properties, then translates them into a seismic response, providing the explorationist with a better understanding of what their seismic section is telling them in terms of rock and fluid properties, particularly for targeted reservoir formations.



Engineering Services

Geotrace engineering services help define, develop and manage your reservoir by virtue of our unique ability to bring every piece of the puzzle together—geophysics, geology and petrophysics. Take advantage of our powerful resources at every stage of the development cycle, from exploration evaluation appraisals to development planning, from reservoir evaluation to management.

TIE IT ALL TOGETHER[®]
That's our strategy for your success.

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