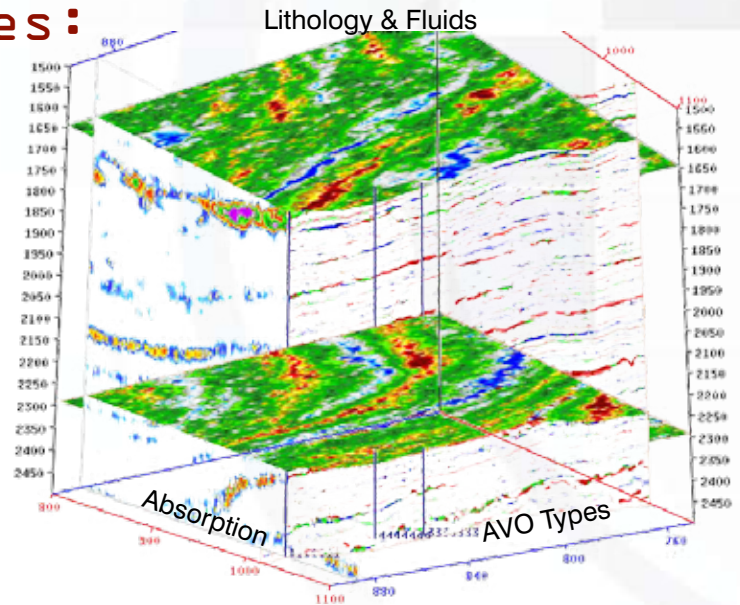# eSeis

LithSeis®

LithSeis®

LithSeis is a proven seismic analysis technique that utilizes pre-stack seismic data to accurately determine volume based lithology, porosity, and pore fluids. By extracting lithologic measurements from the seismic data before stacking or averaging, the result is a more accurate rock based description of the subsurface. eSeis takes you back to the rocks to enable multi-discipline asset teams to immediately obtain benefit from seismic petrophysics.
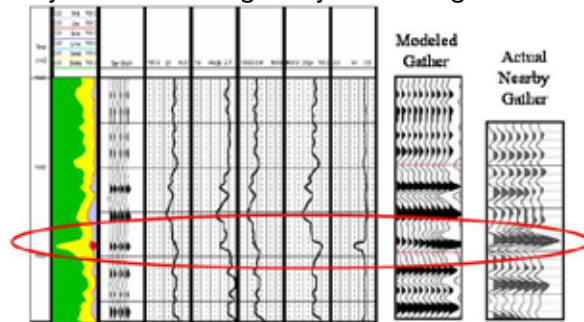
LithSeis Deliverables:

- Segy Volumes:
  - Lithology/Fluids
  - AVO Types
  - Reservoir Quality
  - Absorption
  - eSeis stack

- Rock Properties of Calibration Wells:
  - Log analysis
  - Corrected logs
  - Synthetic Seismograms

Lithology & Fluids

Absorption   AVO Types

LithSeis Benefits:

- Attributes are geologically meaningful by distinguishing:
  - Porous sands
  - Tight sands
  - Laminated sands
  - Gas presence

- Quick turnaround time
- Relates to depositional facies
- Reduce cycle time
- Reduce exploration risks
- Identify pay that is low amplitude
- Identify by-passed pay
- Easily scan large volumes of data for potential reservoirs

Synthetic from Log Analysis tied to gathers

Gathers over Lithology

Seismic Petrophysics