SOFTWARE TRAINING: FracPredictor™

Training sessions for geophysicists, geologists and engineers are organized in Go Geo and its partner offices in Pau, Houston and in major cities. Custom training for specific needs is also available for E&P and services companies.

3G MULTIDISCIPLINARY TRAINING

Training sessions describing advanced workflows are available for geophysicists, geologists and engineers who want to gain an edge over the mainstream 50% solution commonly found in current software. These workflows use FracPredictor and real data to provide to the geoscientists and engineers multiple solutions that solve major problems that appear intractable to the mainstream oil and gas industry.

- **Reservoir Geophysics**
  
  Most E&P companies still reserve their seismic data only for structural interpretation, leaving behind additional reservoir information that can be extracted from multiple seismic attributes. This course describes the modern and proven techniques used to accurately extract the entirety of information available from seismic data. Real data and complex geology are used to demonstrate the powerful geophysical algorithms available in FracPredictor. The course includes the following topics:

  - Understanding the difference between seismic resolution and seismic detection limit.
  - Enhancing the seismic resolution with proven science.
  - Detecting small faults using advanced volumetric curvature and comparison to other software results.
  - Retrieving facies and fluid information from spectral decomposition.

- **Geologic and Fracture Modeling**
  
  Many years after the introduction of geostatistics and artificial intelligence, the use of one or more seismic attributes in reservoir modeling remains very limited. Most geoscientists are still struggling with the description of the natural fractures in their reservoirs. This course includes the following topics:

  - Seismically driven reservoir modeling to reduce uncertainties.
  - Geostatistics for beginners.
  - Using multiple seismic attributes in reservoir modeling.
  - The myths of fracture modeling and how to accurately develop a fracture model which is predictive and can be validated with production data.
  - Finding sweet spots in conventional and unconventional reservoirs.

- **Geomechanics for Hydraulic Fracturing and Frac Design Optimization**
  
  With the advent of the Shale Revolution, the need to better understand well performances through use of geomechanics is clear. The complex interaction between hydraulic and natural fractures remains a challenging topic. This course provides the means to understand the key geomechanical concepts needed to model the reality of asymmetric complex fracs. The course includes the following topics:

  - Understanding the difference between seismic resolution and seismic detection limit.
  - Fast estimation of elastic properties using extended elastic inversion constrained by lithology.

- **Reservoir Simulation for Unconventional Wells**
  
  This course focuses on the key concepts needed to understand the reality of asymmetric Stimulated Reservoir Volumes and how to estimate them in a realistic manner that honors the complex geomechanics. The course includes the following topics:

  - Using G&G data to estimate differential stress and local stress rotations.
  - Simulation of hydraulic fracturing in the presence of natural fractures.
  - Representing frac complexity in a classical frac design.
  - Constraining the frac design to stress gradients captured by the geomechanical simulation.
  - Completion optimization and adaptive fracturing.

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