



# **ADVANCED GOHFER TRAINING COURSE**

## **AGENDA (3 Day)**

**Multi-Well Fully 3D Geo-Mechanical Model**

**HALLIBURTON**



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# ADVANCED GOHFER TRAINING COURSE AGENDA (3 Day)

## Multi-Well Fully 3D Geo-Mechanical Model

**Objective:** This course is intended for **EXPERIENCED GOHFER USERS ONLY**. This course will discuss and demonstrate the GOHFER 3D Multi-Well Fully 3D Geo-Mechanical Model. This course assumes the students have received previous GOHFER training and are proficient with the current customer version. Basic/beginner topics and other modules will not be covered.

### Day 1: - *Horizontal Transverse Shale Model & Production Example*

#### Introductions

#### Horizontal Transverse Shale Model & Production Example

- 3D Surveys
- LAS (Shale / Carbonate Log Processing)
- Longitudinal vs. Transverse Fractures
- Geosteering
- Breakdown Pressure
- Fracture Orientation
- Breakdown Gradient / Breakdown Angle
- Perforations
- Interference / Stress Shadowing
- Single Transverse stage (multiple clusters)
- Multiple Transverse stages (individual treatments)
- Stress Anisotropy
- Ball Drop Transverse stages (single treatment / multiple stages)
- 3D Grid Output
- Longitudinal / Transverse production parameters

### Day 2: *AM - Multi-Well Fully 3D Geo-Model*

#### 3D Example 1 – Multi-Well Model w/ Reference Logs only (No Geo-Model)

- Site & Well Location Entry
- Log Processing & Integration
- Grid Setup & Map View

#### 3D Example 1 – Add 2D Surface Map to Previous Example

- Grid Setup & Map View

#### 3D Example 1 – Add 3D Geologic Model to Previous Example

- Create Core to Replace Reference LAS
- LAS Mapping from Core (Full 3D Distribution vs. Reference LAS (Layer Cake))
- Import Geologic Model / Requirements
- Offset Depletion / Well Bashing
- Zipper frac simulations

### Day 3: - *Multi-Well Fully 3D Geo-Model*

#### Fully 3D Geo-Model Example

- Individual Multi-Well Fully 3D GeoModel Class Exercise

#### Wrap Up - Summary and Conclusions