

## Workstrings Engineering Services

**Workstrings International® has a staff of Petroleum Engineers supporting domestic and international projects by providing the following services to our customers:**

### Drill String Design

An optimum design model utilizing a premium software package that meets all of the rig constraints for each hole section based on trajectory, hydraulics, surface torque, available overpull, and slip crushing

### Landing String Design

An optimum design for each tubular section based on inspection criteria, pipe management, slip crushing, slip type, and dynamic loading considerations when landing casing strings and liners

### Tubular Performance Analysis

An in-house developed calculator as per API 5C3 utilized to evaluate tension, torsion, burst, and collapse of tubulars and accessories, with or without biaxial loading

### Accessory Analyzer

The Accessory Analyzer is used to determine the tensile, burst and collapse of crossover subs and pup joints

### Connection Analysis

Evaluation of the mechanical properties of API and proprietary connections

### Tubular Stretch Analysis

Calculation of drill string stretch at given intervals, considering the effects of the well path and buoyancy, to determine the cumulative stretch

### Slip-Crushing

Empirical calculations based on the maximum axial loads that can be safely applied without damaging the pipe for a specific slip design

### Stiffness Analysis

A section moduli ratio of stiff to limber components used primarily as a guideline to evaluate the impact of unlike components in the BHA



## Engineering Support

- Optimized Tubular Project Design
- Torque and Drag Modeling
- Hydraulics Modeling
- Landing String Design
- Reduced Collapse Calculations
- Tubular Connection Analysis
- Finite Element Analysis
- Project Management

# Deep Inventory. Even Deeper Expertise.



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