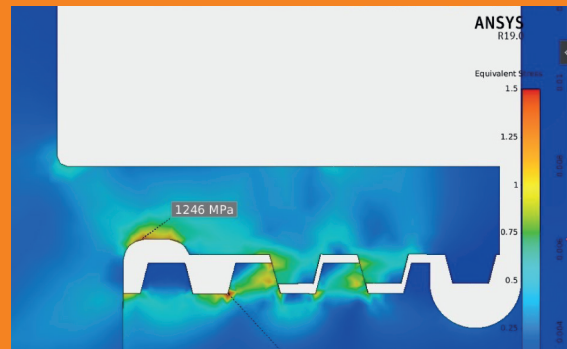


ANALYSIS

WHAT DOES ROCKATEK'S ANALYSIS SERVICE LOOK LIKE?

Rockatek uses **FEA, CFD, and hand calculations** to analyse mechanical behaviour, support key decisions, and enhance design.



Whether standalone or paired with design and testing, our analysis reveals how systems perform under pressure, load, torque, temperature, and fatigue.

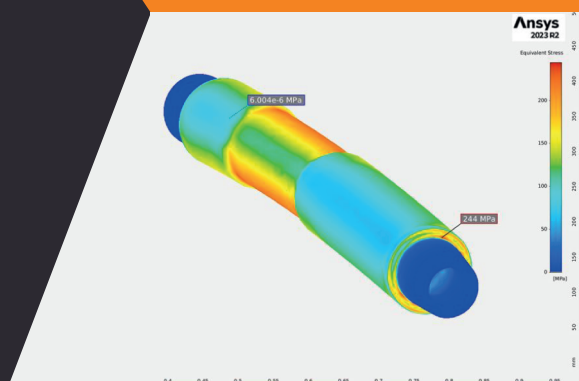
Rooted in real physics and field performance, our work goes beyond theory. Backed by vast experience in downhole systems, we help clients accelerate development, cut costs, and boost performance.

**The goal —
build it right and
prove it works.**

WHY START WITH FIRST PRINCIPLES?

We always begin with the fundamentals. Before simulation, we take the time to understand the mechanics behind the problem.

We solve it on paper first, then use our analytical tools to refine the solution until what we see on screen matches what we know in practice.



SOFTWARE

- ANSYS FEA & CFD 
- Nastran FEA
- MATLAB / Mathcad  Inventor Nastran
- DrillScan / WellScan BHA Modelling 

SERVICES

- Stress – strain – fatigue
- Standalone fatigue analysis
- Thermal
- Linear & nonlinear
- Fluid flow & pressure drop
- Buckling & stability
- Vibration & modal
- Shock & impact
- Torque & power transmission
- Sealing & surface mechanics
- Thread & connection analysis
- BHA modelling

+44 1452 379 844
www.rockatek.com

ROCKATEK®

**ENGINEERING
FOR HARSH
ENVIRONMENTS.**

ROCKATEK®

WWW.ROCKATEK.COM