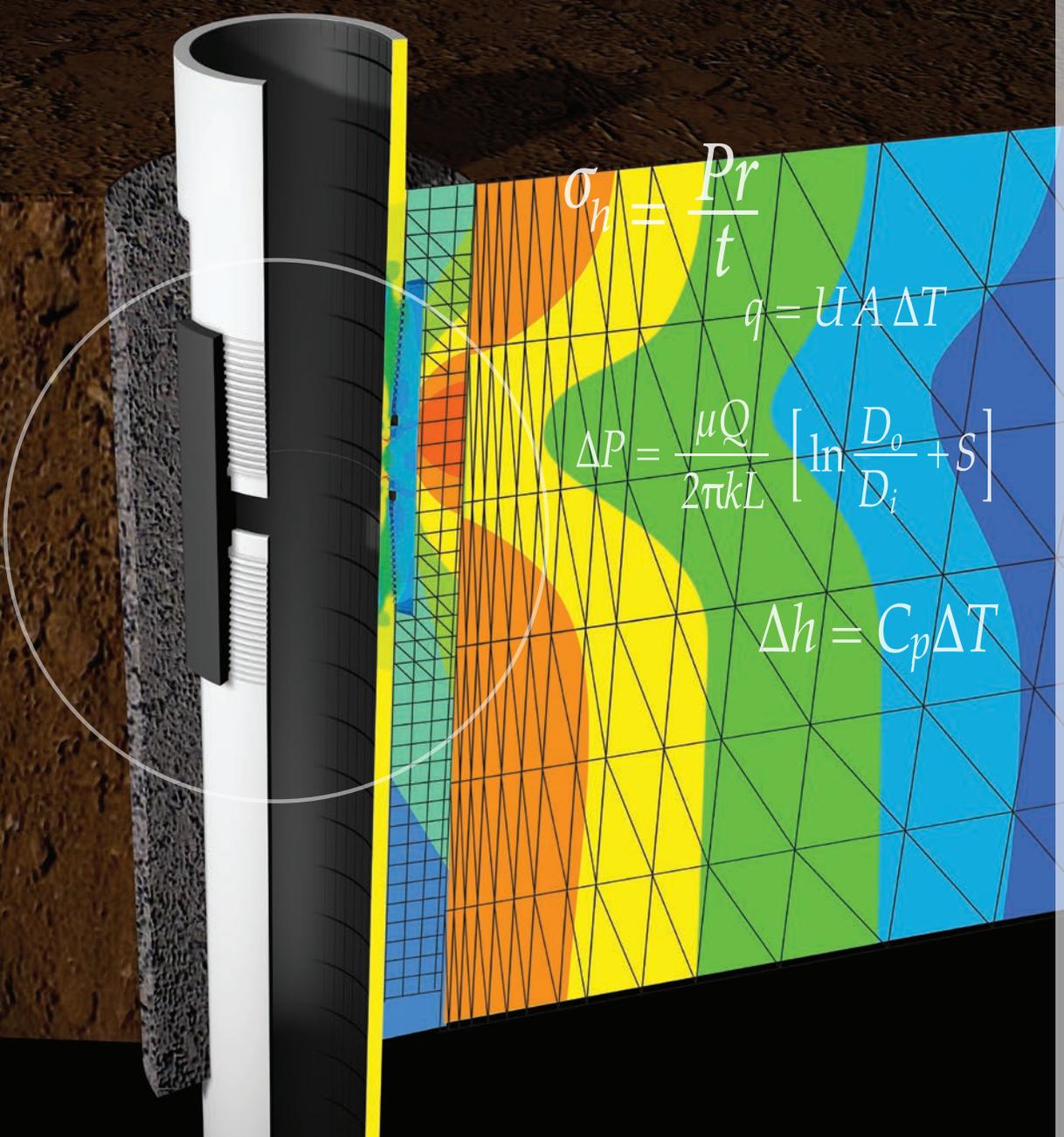


# We're Your Opportunity.

Volant Consulting Engineering



Where challenges become opportunities.

# Volant Consulting Engineering

## Where challenges become opportunities.

At Volant, we combine engineering fundamentals with field awareness in everything we do. It's how we stay ahead of the curve, creating and delivering technology that enables optimal tubular system construction and integrity.

### Consulting services and solutions

Since 1998, we've consistently delivered solutions that get results in both conventional and severe-service applications. Early on, we committed to gain the full potential of top drive technologies and the result was Volant's casing running tools. In the mid 2000's we recognized the gap between connection requirements for high-temperature post-yield applications and existing qualification techniques. We responded with a new ISO standard for thermal connection evaluation. More recently, we saw drilling teams' need for greater intelligence on their casing running operations. We developed Volant's first software package, which delivers indications of real-time tubular health and running KPI's.

These are just a sample of the solutions being used by our clients and industry. Whatever the application or environment, our record remains consistent. We're the team who can see past the engineering challenges to illuminate the opportunities. Usually by *Doing More With Less*.

### How can we help you?

#### Tubulars Engineering

- Material characterization and selection
- Pipe-connection system design and validation:
  - Structural integrity (elastic, near-yield, post-yield)
  - Sealability
  - Fatigue
  - Life prediction
- Product line evaluation

#### Casing Running Optimization

- Subsurface component running load limits
- Extended reach running simulation, optimization, and monitoring
- Post-run evaluation and tubular health assessment



#### Well Deformation Interpretation

- Casing integrity log data processing
- Well deformation interpretation and accessibility assessments
- Failure investigations

#### Advanced Mechanical Engineering

- Non-linear thermo-mechanical finite element analysis
- Wellbore hydraulics and heat transfer modelling
- Specialized material mechanical testing
- Smart experimental evaluations of systems and components

*Volant's consulting engineers work under the banner of Volant's wholly-owned subsidiary, Noetic Engineering 2008 Inc.*



### Give us a problem.

Or just drop us a line if you want to learn more.

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