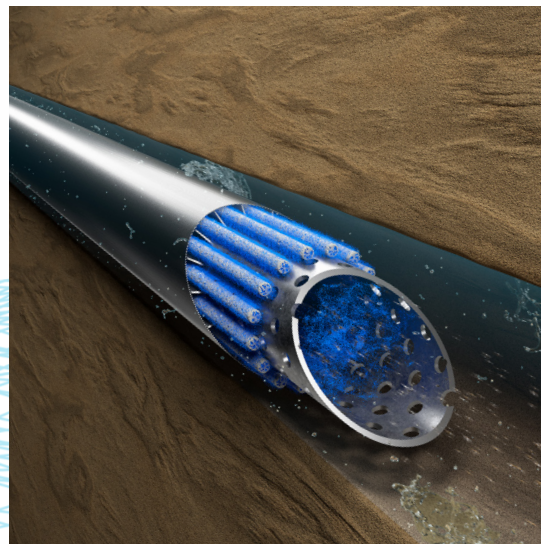
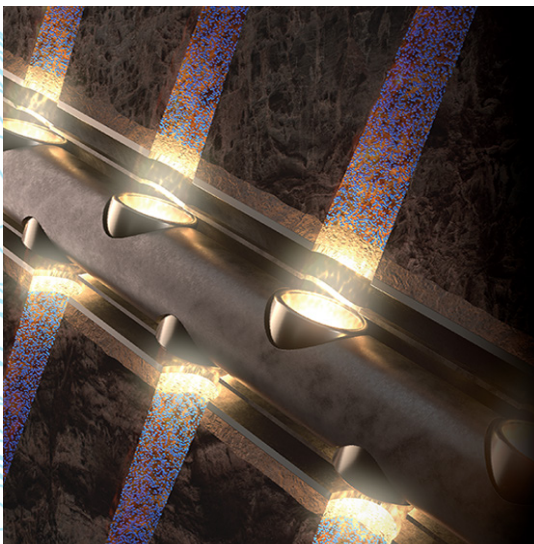
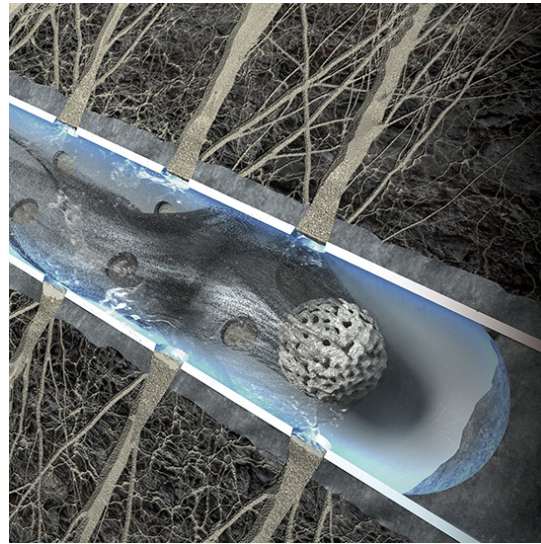




QuantumPro, Inc.

Reduce Reservoir Monitoring Costs and Optimize Reservoir Flow Performance with QuantumPro's Ultrahigh-Resolution Nanoparticle Tracer Technologies and Solutions

## Engineering Study



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# Engineering Study: Ultrahigh-Resolution Nanoparticle Tracer Technology for Subsurface Reservoir Monitoring

QuantumPro's innovative nanoparticle tracer technologies make for a simple cost to benefit decision because they are very simple to deploy, no risk to operations, and are relatively low cost. They deliver unparalleled precision in reservoir flow diagnostics and analysis, significantly reducing production

logging and measurement costs while enhancing production outcomes. Our industry-recognized experts will develop a customized Engineering Study to explore how this cutting-edge solution can benefit your specific project flow mapping objectives.

## Study Objective

Design and recommend a cost-effective subsurface monitoring program using advanced nanoparticle tracer technology tailored to your reservoir, completion design, flow mapping challenges, and field development plans.

## Scope

### Reservoir Analysis & Application Design:

Evaluate reservoir properties, completion designs, and field development parameters to identify where ultra-high-resolution nanoparticle tracers offer superior insights.

### Best Practices & Lessons Learned:

In-depth review of similar projects to establish best practices for nanoparticle tracer deployment, optimize tracer injection schedule, deployment technique, and sampling strategy.

### Technical & Economic Feasibility Assessment:

Compare the technical performance, benefits, and cost efficiency of nanoparticle tracers against alternative technologies, including:

- Fiber Optic Monitoring (DAS & DTS): Continuous temperature and acoustic flow data
- Production Logging Tools (PLT): Conventional inflow diagnostics
- Chemical Tracers: Traditional flow monitoring solutions

## Actionable recommendations for:

- Intervention-less water and oil production profile over time
  - Identification of reservoir compartmentalization and flow anomalies
  - Early detection of water injection breakthroughs
  - Conformance evaluation for enhanced recovery
  - Frac hit detection and well spacing analysis in both the horizontal and vertical plains
  - Assess well stimulation job performance based on high-resolution production results
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## Why Choose QuantumPro, Inc.?

With over 20 years of industry experience in subsurface reservoir modeling, geomechanics, nano-tracing, and advanced technology evaluation, our team of experts offers unparalleled expertise in designing cost-effective and technically optimized ultra-high-resolution nanoparticle tracer reservoir monitoring programs.



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