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# *Award Winning Inter Particle Reservoir Tracers*

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## **Unlocking Potential: AI Enabled Well Completion Optimization**

### **QuantumPro, Inc.**

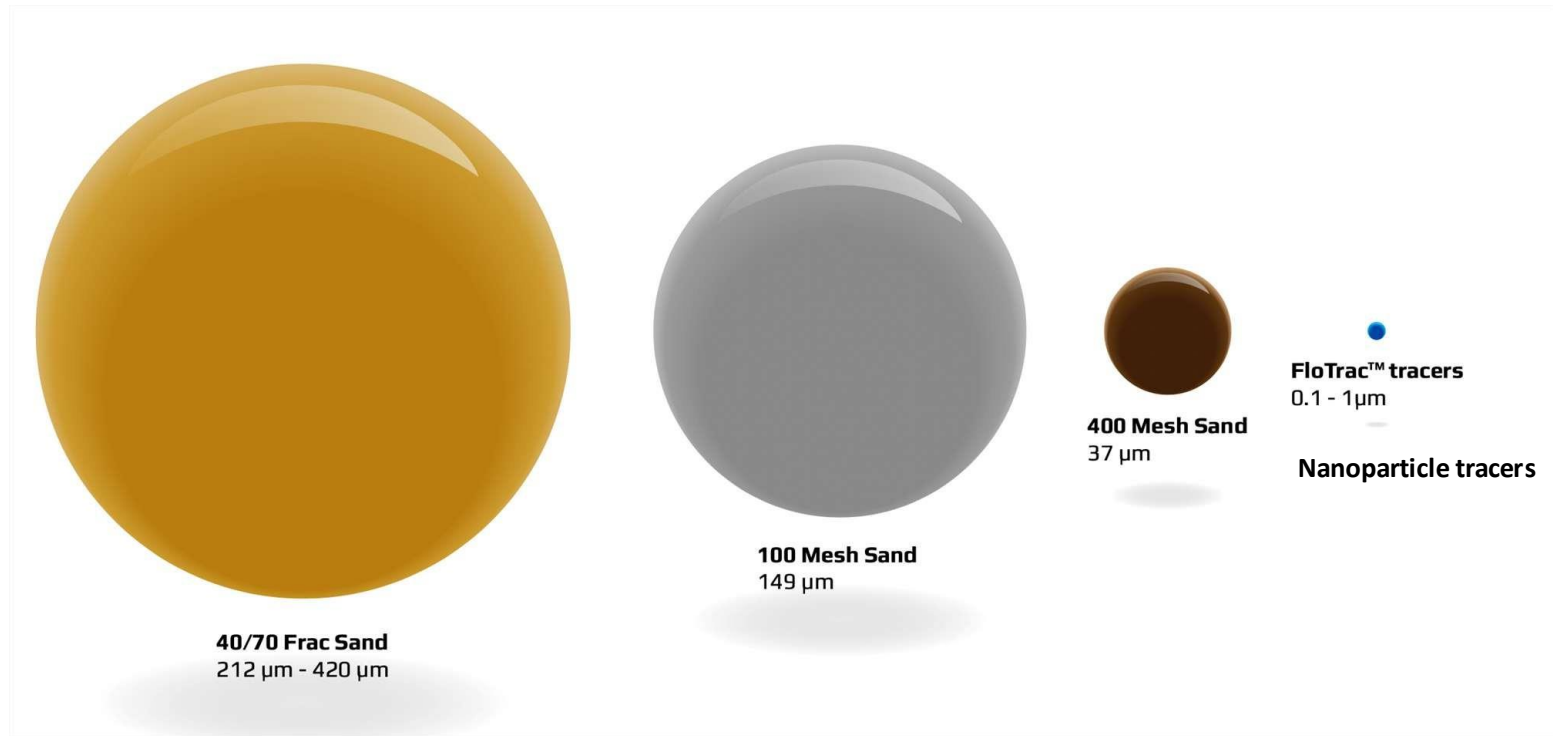
*Intelligent Diagnostics for Production and Injection Wells*



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# QuantumPro Proprietary and Unique Nanoparticle Tracers



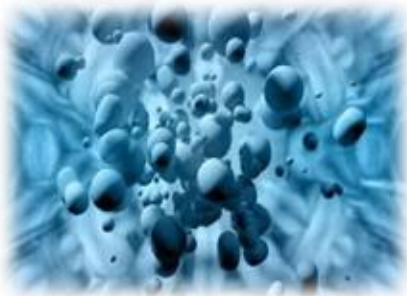
## FloTrac™ Ultrahigh-Resolution Nanoparticle

## FloTracG™ Ultra-Light Buoyancy Unique Gas Nanoparticle

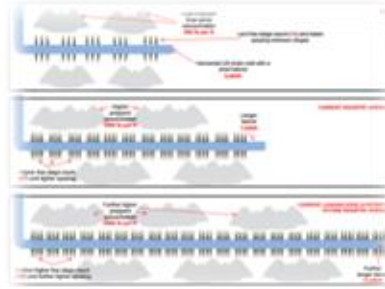
Physical properties	FloTrac tracers	Physical properties	FloTracG tracers
Specific gravity, g/cm <sup>3</sup>	0.92 – 1.17	Specific gravity, g/cm <sup>3</sup>	0.40 – 0.45
Temperature limit, F	2,000	Temperature limit, F	2,000
Number of nanoparticle tracers	220 unique tracers	Number of nanoparticle tracers	8 unique tracers

**Approved by CEFAS Environmental Authority For Use in UK**

# FloTrac™ tracer – value creation (220 unique tracers)!



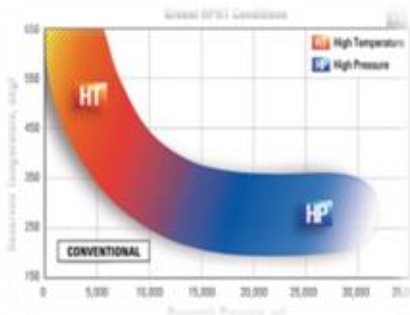
Cost-effective and inert particles



Non-intrusive to completion design



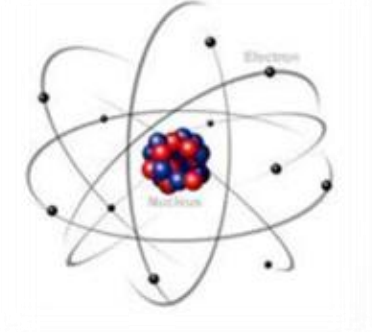
Easy deployment (per mixed in liquid)



Stable at very high-temperature



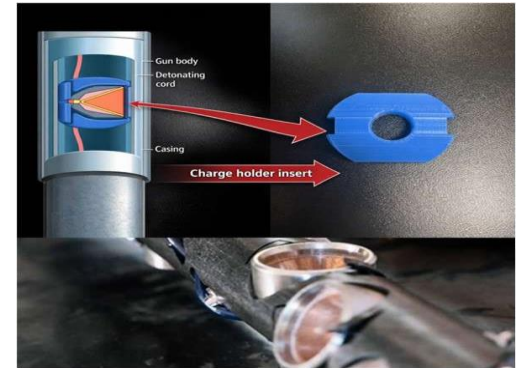
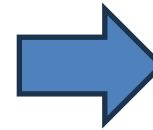
Tracer compatible with oil and water



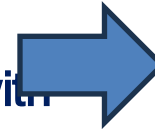
Quick testing & sub-atomic accuracy

# Unique Tracer Deployment Technologies

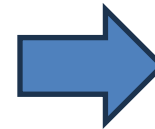
- **PerfTrac-R™** Unique nanoparticle tracers in perforation guns provides perforation-level flow monitoring and diagnostics



- **OmniTrac™** Downhole tracer deployment with dissolvable balls



- **Solutrac™** Dissolvable inserts for downhole tracer deployments



## Current Landscape of Flow-profiling Technologies

	Fiber Optic (DAS & DTS)	Production Logging (PLT)	Chemical Tracer	QuantumPro's FloTrac Tracer
Type of technology	Downhole fiber	Production Logging	Chemical Liquid Tracers	Nanoparticle Tracers
Temperature limits	Up to 700F	Up to 700F	Up to 400F	Up to 2,000F
Detection accuracy	Very High	Medium	Low	Very High
Production profiling timeline	Long-term	Short-term	Middle-term	Long-term
Deployment requirements	Downhole with completion	Intervention with logging	Multiple tracers per Stage	Single tracer per stage
Mobile lab with onsite analysis	No	No	No	Yes
Results turnaround time	3 weeks	2 weeks	3 weeks	Near real-time
Precision in "frac hits" mapping	No	No	Medium	Very High
A.I. and ML enabled optimization	No	No	No	Yes
Cost to E&P Operators	Very High	High	Medium	Low

*~ 98% of wells have no stage-by-stage production profile information!*

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## ***A wide range of applications***

- Perforation Diagnostics
- Annulus Pressure Diagnostics
- Wellbore Cleanouts
- Acid Stimulation Applications
- Hydraulic Fracturing Applications
- Conformance Problems
- EOR: Improve Economics & Decisions
- Open-Hole and Slotted Liners Completions
- Nanoparticle Tracers in Open-Hole (OH )Carbonates
- Enhancing The Completion For Monitoring
- Stage Production Contribution
- Geothermal Wells

**END**

# QuantumPro, Inc. AI Solution

## QuantumPro, Inc. AI Solution is built on

- foundation of robust stage-level production data
- combining both proprietary insights, operators, and publicly available data
- providing a comprehensive view for your completion strategy.

This approach ensures that every recommendation is grounded *in verifiable results empowered by AI for maximum effectiveness.*

- Enhanced reservoir understanding
- Predictive analytics for the best production performance
- Risk assessment and mitigation strategies.



*Best Production Technology @ Gulf Energy Awards 2025*

