QuantumPro, Inc.

FloIQ™

AI-Enabled, Stage-Level Production Flow Forecasting

Revolutionize well design and spacing decisions with unique, **AI-enabled predictive intelligence.**

A New Generation of Subsurface Intelligence

FloIQ™ AI-Enabled, Stage-Level Production Flow Forecasting by QuantumPro, Inc. is an advanced, high-resolution, AI-driven forecasting solution designed to predict stage-to-well connectivity, supporting critical well placement and spacing decisions.

FloIQ™ leverages a proprietary AI-powered engine trained on one-of-a-kind insight and collective learning from extensive, stage-level nanoparticle tracer deployments across the Permian and Eagle Ford basins. This provides a faster, intelligent, lower-cost alternative to traditional deterministic modeling.

Armed with this unique insight, operators act faster and with greater confidence. This drives improved capital efficiency, quantifiable frac hit risk control, and streamlined completion workflows.

How **FloIQ** Works

FloIQ™ integrates multi-dimensional datasets to generate actionable predictive insights:

- **AI-Powered Engine:** Uses a proprietary AI model trained in high-fidelity, cluster-level insight.
- **Iterative Validation:** The model is continuously refined, validated, and retrained as new tracer insight is uploaded.
- **Comprehensive Data Integration:** Data input includes deviation surveys, stage top/bottom definitions, tracer concentration records, geological information, completion design, and stage-to-stage distance calculations.
- **Geospatial Precision:** Utilizes 3D visualization and GIS processing to verify trajectories and stage placement for maximum accuracy.
- **Delivers Insight:** Generates quantitative connectivity scores, predicted interference risk, and optimized spacing recommendations

What Makes FloIQ™ Unique?

1. AI-Powered Engine Trained on One-of-a-Kind Insight.

Most flow models rely on aggregate wellhead production and "deterministic" geomechanical and petrophysical properties. These methods often utilize sparse or assumed analogous rock data and production histories, or they require expensive data acquisition techniques to achieve a meaningful outcome. Alternative AI methods frequently rely on surrogate models, extensive assumptions, or physics-informed agents limited by public data.

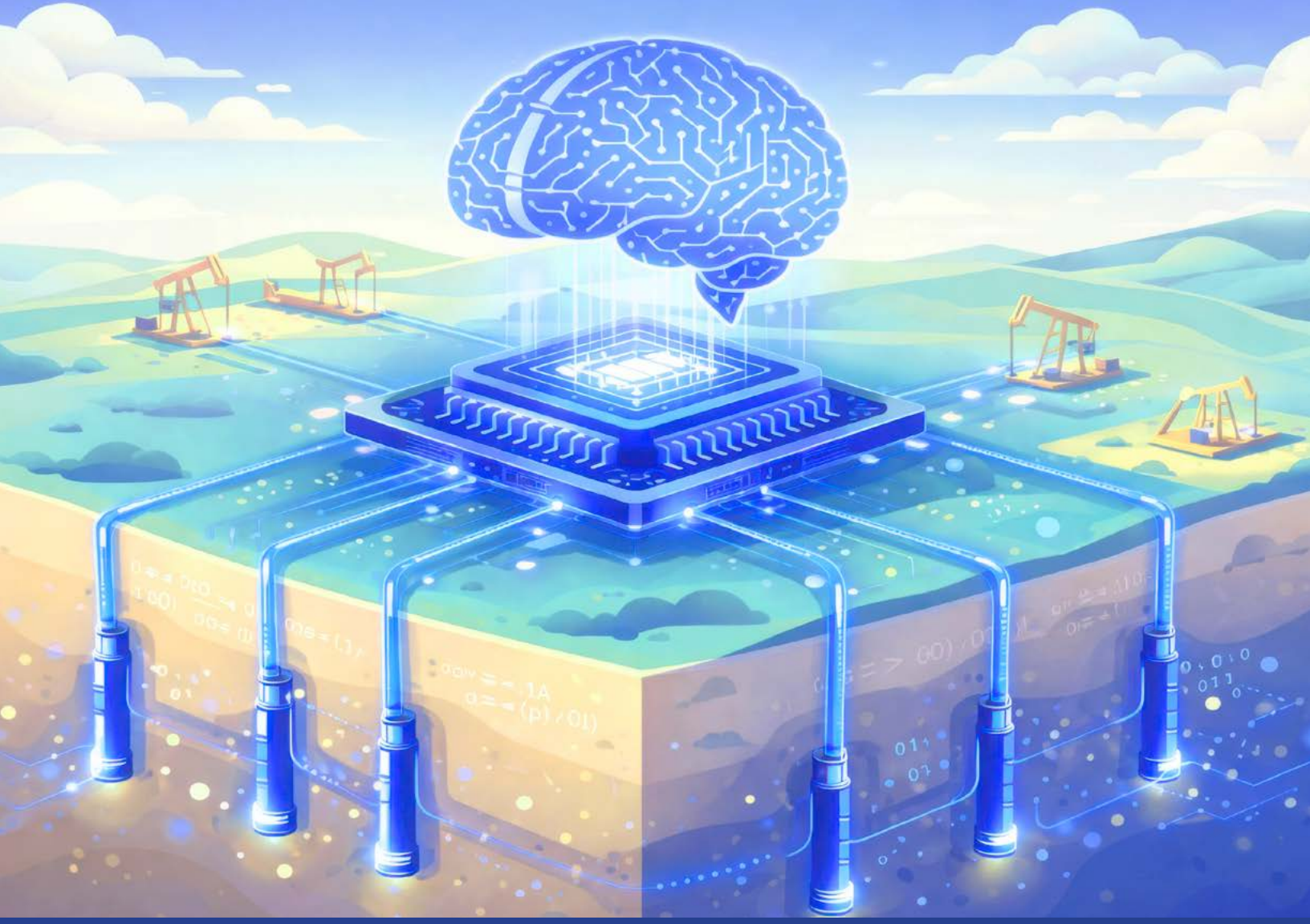
FloIQ™ uses an AI-powered engine trained on a massive model of stage-level production measurements and observations, acquired at a fraction of the cost of traditional data used in current models.

Instead of theorizing how fluid might move, FloIQ™ analyzes real-world, measured evidence of how fluid moved in specific well and completion designs. By looking across thousands of similar stages and various formations, it recognizes discrete flow patterns hidden within subsurface behavior.

FloIQ™ turns a qualitative guess into quantitative insight on stage-level connectivity, supporting critical well placement and spacing decisions. This capability significantly reduces the risk of parent-child well interference and frac hits, and enables more efficient reservoir sweep and optimized asset development.

2. Speed and Cost vs. Traditional Modeling

Traditional modeling is computationally "heavy," expensive, and limited by a lack of discrete, stage-level production and inter-well flow and production insight. FloIQ™ is a lower-cost, higher-speed option that generates stage-to-stage and inter-well connectivity forecasts in a fraction of the time, allowing your team to rapidly iterate on well spacing and completion designs. FloIQ™ can be used alongside existing geomechanical and geological models for comparison, with inert nanoparticle tracers supplying post-frac ground-truth calibration data or new workflows leveraging unprecedented stage-level granularity and production insight.



3. Continuous Improvement

Traditional models require significant effort and cost. FloIQ™ is designed for iterative validation. While a traditional model must re-solve complex math equations to account for new data, FloIQ™ simply adds new data (acquired by inert, nanoparticle tracer deployment) to its "learning library," updating its predictive recommendations almost instantly with the new insight. As you upload new nanoparticle tracer results from your latest wells, the model retrains itself. It gets smarter with every well you drill and complete, meaning your predictive accuracy in the Permian or Eagle Ford improves continuously.

Unlike generic AI models that rely on lagging production data or theoretical proxies, FloIQ™ is trained on a foundational library of stage-level tracer behavior and the industry's most high-fidelity indicator of subsurface connectivity. We don't just find correlations in data; we recognize the unique fingerprints of actual fluid flow.

Operational Implementation Framework

We follow a structured, three-phase workflow to integrate FloIQ™ into your development program:

Phase 1: Data Integration: Aggregating and quality control of all available geological, drilling and completion information.

Phase 2: Stage Definition & Tracer Data Conditioning: Defining stage boundaries and preparing tracer results for model input.

Phase 3: Model Prediction: Executing the prediction workflow to generate actionable results.

Strategic Benefits

- **Optimize Well Spacing:** Predict inter-well and stage-to-stage connectivity to support smarter development decisions.
- **Accelerated Decision Making:** Move faster and with more precision than traditional modeling with predictive scores that drive immediate design iterations.
- **Basin-Specific Expertise:** Initial rollouts are focused on the high-impact Permian and Eagle Ford basins.

The Bottom Line: Capital Efficiency

FloIQ™ AI-Enabled, Stage-Level Production Flow Forecasting by QuantumPro, Inc. protects your capital by giving you a faster, more accurate method to prevent unwanted fracture hits and unwanted stage-to-stage connectivity and water production — while maximizing the tailored factory approach to stage placement and well spacing.

FloIQ™

Why Choose QuantumPro, Inc.?

With decades of expertise in subsurface reservoir modeling, geomechanics, and our award-winning nanoparticle tracer technology and deployments, QuantumPro, Inc. is uniquely positioned to bridge the knowledge gap that confronts operators. FloIQ™ represents the next frontier in our mission to deliver nanotechnology-backed subsurface intelligence at a price that enables wide or even routine adoption across drilling, completion, and injection workflows.

Contact us today to get started with a FloIQ™!

QuantumPro, Inc.

To learn more about how FloIQ™ can help maximize the production and value of your oil, gas, geothermal or water asset, contact **QuantumPro, Inc.** at

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