

# Pipeline Flow Assurance Services by London Petrotech Engineering Ltd

We believe we can provide the best flow assurance services from Concept development, to FEED and detailed design, and during operation using advanced tools and highly-skilled flow assurance engineers

## Who We Are

**London Petrotech Engineering Ltd** provides specialized engineering consulting services and training for the oil and gas industry in some of the key areas of materials and welding engineering, corrosion management, expert witness and RCFA, process engineering and flow assurance.

The London-based company utilizes highly-experienced and qualified chartered engineers for specialized consulting. Their expertise empowers clients to safely optimize assets, improve reliability, and manage risk.

## Why Choose Us



### Deep Industry Experience & Competencies

Our flow assurance engineering team boasts decades of industry experience and proven expertise in developing innovative, tailored solutions for diverse flow assurance challenges.



### Value-Added Services

Our flow assurance services optimize production by designing customized solutions to maximize flow rates, minimize downtime, and improve overall system efficiency.



### Client-Focused Approach

We adopt a highly collaborative and adaptable approach, working closely with clients to understand their unique requirements and address their concerns throughout the project lifecycle.

## Our Flow Assurance Services

### Steady State Thermal Analysis

- Fluid analysis
- Design flowrates
- Turndown conditions
- Future production profiles
- Flow regimes and behavior
- Heat transfer coefficient
- Erosion velocity ratio

### Transient Flow Thermal Analysis

- Pipeline start up for various conditions
- Planned and emergency shutdowns
- Pigging operations
- Well testing and blowdown scenarios
- Ramp-up and ramp-down operations

### Wax Deposition & Scale Formation

- Wax deposition modeling and verify WAT, pour point, wax deposition rates
- Wax management strategies
- Scale formation modeling
- Assess current scale inhibition program

### Other Services

- Slugging analysis and its mitigation,
- Sand erosion assessment using CFD and other industry accepted models,
- Chemical injection review (type of chemicals, injection rate, location, etc.)

