



PETRONAQ

ENGINEERING INTELLIGENCE

PETROLEUM TECHNICAL CONSULTANCY & ASSURANCE

Engineering Insight | Technical Assurance | Better Petroleum Decisions

CAPABILITY STATEMENT v2.2

AUGUST 2026





PETRONAQ

Engineering Intelligence

TECHNICAL DEPTH WHERE THE DECISION DEMANDS IT.

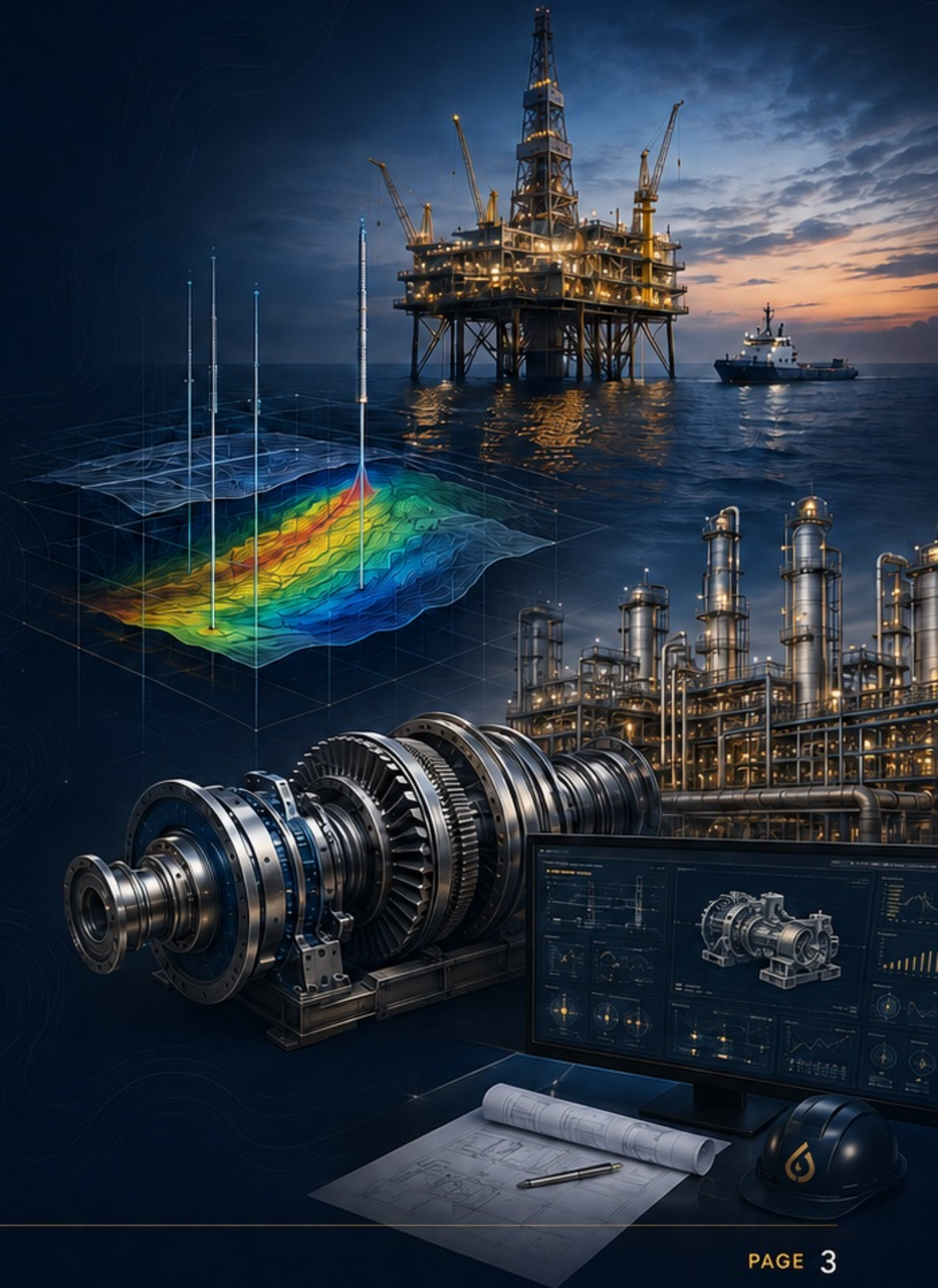
Petronaq supports operators, asset owners and technical organisations where reservoir behaviour, wells, production systems, drilling activity, contractor delivery or multidisciplinary engineering require additional specialist depth and independent technical judgement.

Studies. Engineering. Review. Assurance. Capability.

A COHERENT TECHNICAL CAPABILITY ARCHITECTURE.

Petronaq assembles specialist capability around the requirement, not around a fixed template.

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Reservoir, Subsurface & Field Development.

Development decisions are only as strong as the subsurface understanding, forecast confidence, and technical basis behind them.

01 When the Model Exists — but Forecast Confidence Is Still Limited.

A technically complete model can still leave the decision exposed when history matching, surveillance alignment, static-dynamic consistency, or uncertainty treatment is weak.

Petronaq Helps: Review reservoir behavior, model assumptions, material balance, forecast sensitivity, and evidence alignment so the client knows what the forecast can — and cannot — support.

02 When Development Options Exist — but the Comparison Basis Is Not Consistent.

Redevelopment, infill, injection, lift, or phased-development options can each look credible while relying on different assumptions, constraints, data treatment, or forecast bases.

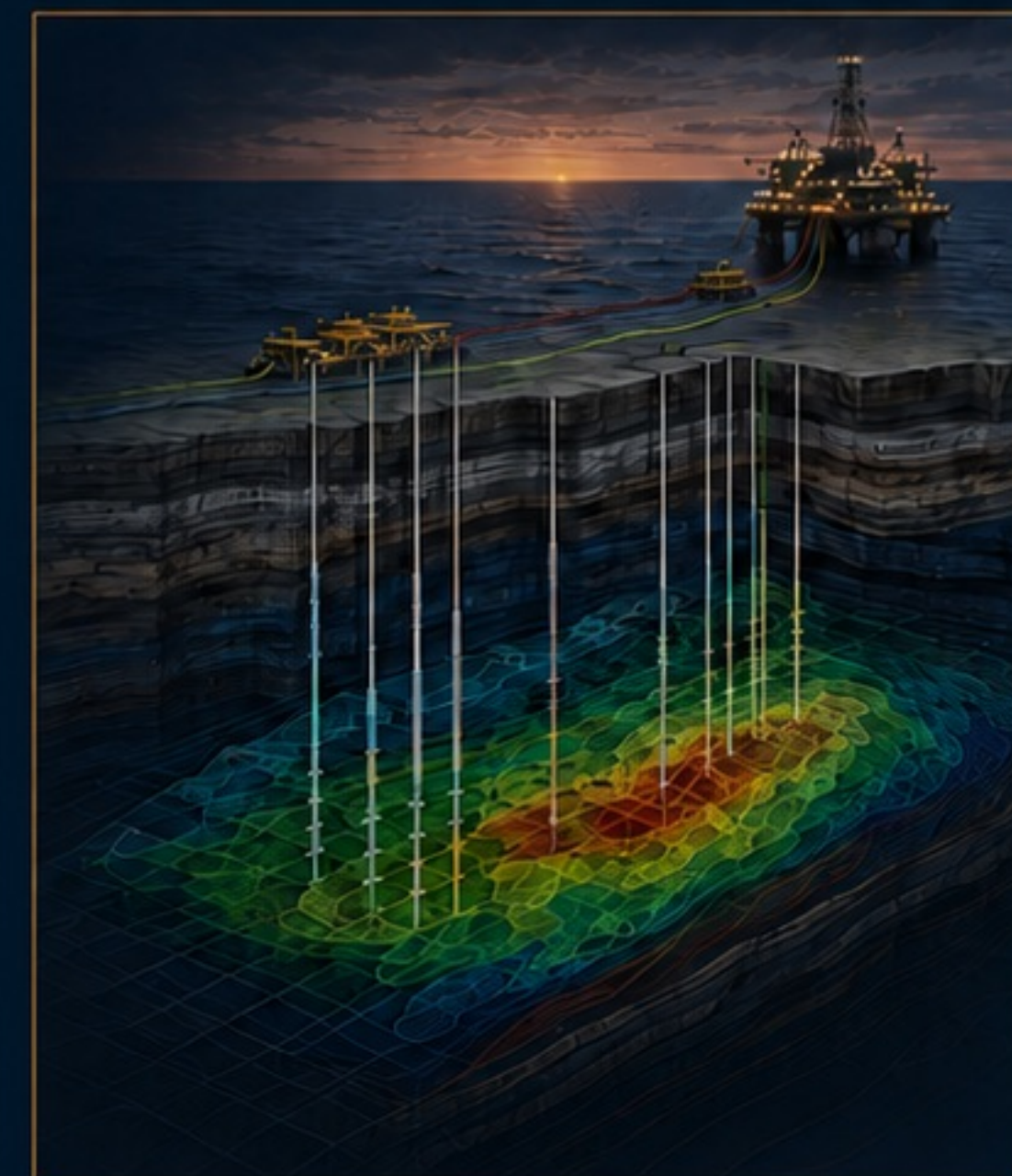
Petronaq Helps: Place scenarios on a common technical basis, expose the assumptions driving the difference, test sensitivities, and clarify what must be resolved before selection.

03 When the Subsurface Disciplines Do Not Fully Connect.

Geology, petrophysics, static modeling, reservoir engineering, wells, and field planning can all be individually sound yet collectively inconsistent.

Petronaq Helps: Integrate the technical evidence, reconcile multidisciplinary assumptions, and build a coherent basis for field development and redevelopment decisions.

Integrated Subsurface / Field Development View



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The issue is not whether technical analysis exists. It is whether the analysis is coherent, decision-ready, and reliable enough to support the development decision.

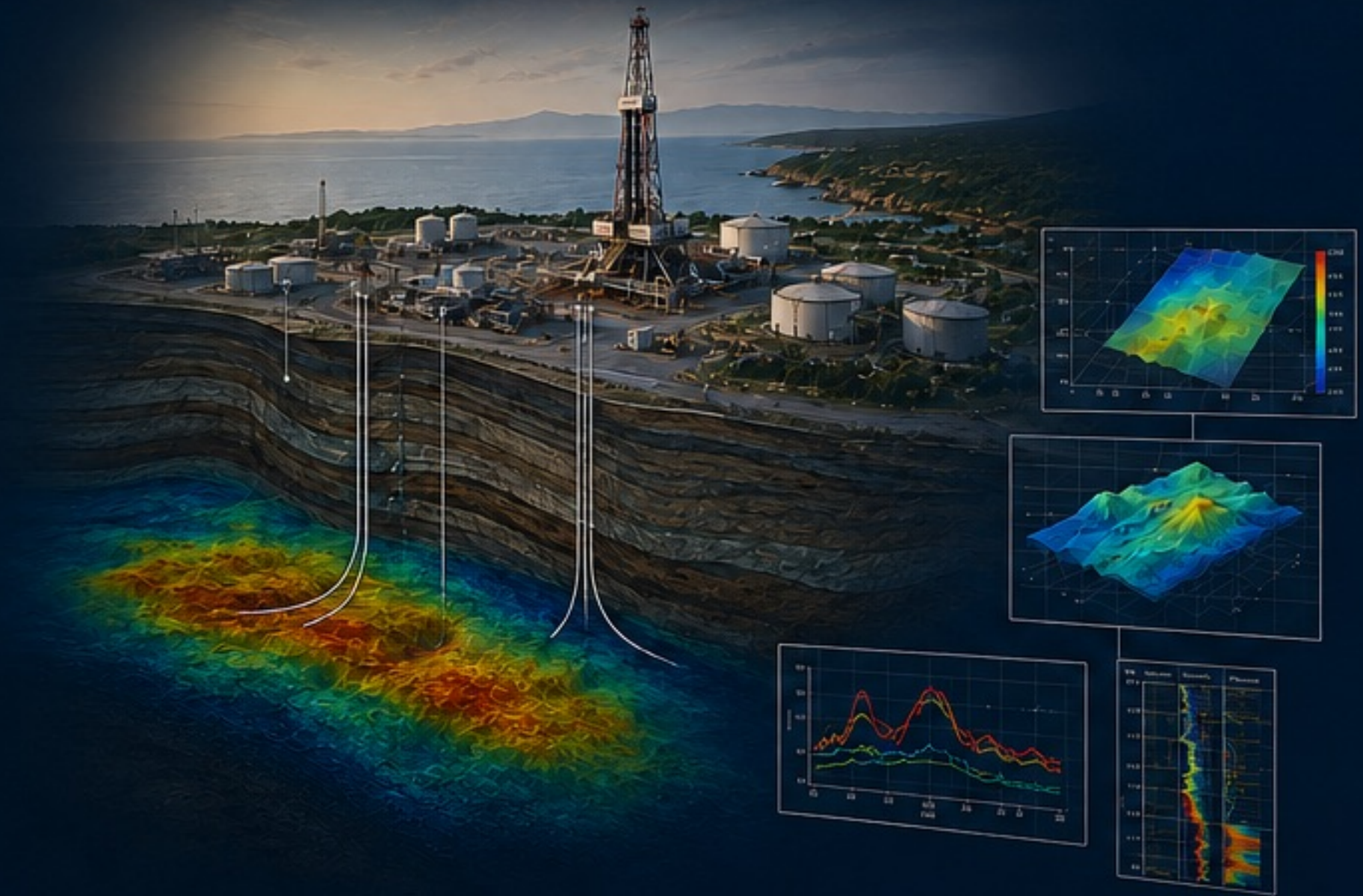
INTEGRATED ASSET UNDERSTANDING

Reservoir Behavior, Well Deliverability, Operating Constraints and Development Consequences have to be understood together.

Technical decisions become weaker when Reservoir Performance, Well Behavior, Surface Constraints and Development Planning are reviewed in isolation. Important interactions may be missed, risk may be underestimated, and the decision may not reflect the full technical reality of the asset.

Petronaq integrates the evidence required to connect Subsurface Understanding, Well Performance, Surface-System Behavior and Development Options. This gives the client a clearer technical basis, stronger comparison of options, and more confident decision support.

One Asset. Connected Realities. Better Decisions.



PRODUCTION OPTIMIZATION AND FLOW ASSURANCE

Production underperformance often reflects interacting constraints across the well, lift system, flow path, and surface network. Petronaq helps identify where value is being lost, why performance is being constrained, and what technical actions can improve production behavior.

1. COMMON TECHNICAL PAINS

Declining Or Unstable Production Behavior

Production falls or fluctuates without a clear explanation.

Unclear Cause Of Underperformance

Multiple potential causes create uncertainty and delay action.

Artificial-Lift Inefficiency Or Mismatch

Lift system is not performing as expected or not suited to current well conditions.

Backpressure And Surface Bottlenecks

Choke, flowline, or separator constraints limit deliverability.

Flow-Assurance Constraints

Gas, liquids, or solids create risks that restrict stable flow.

Weak Surveillance And Uncertain Priorities

Incomplete insight and unclear priorities lead to missed value.

2. HOW PETRONAQ SUPPORTS THE DECISION

Production Diagnostics And Root-Cause Screening

We evaluate performance data to identify the most likely technical constraints.

Well And Lift Performance Review

We assess inflow, lift system performance, and operating strategy against current well conditions.

Reservoir-To-Surface Constraint Mapping

We map the entire flow path to locate pressure drops, bottlenecks, and limiting elements.

Surveillance Priorities And Data-Gap Identification

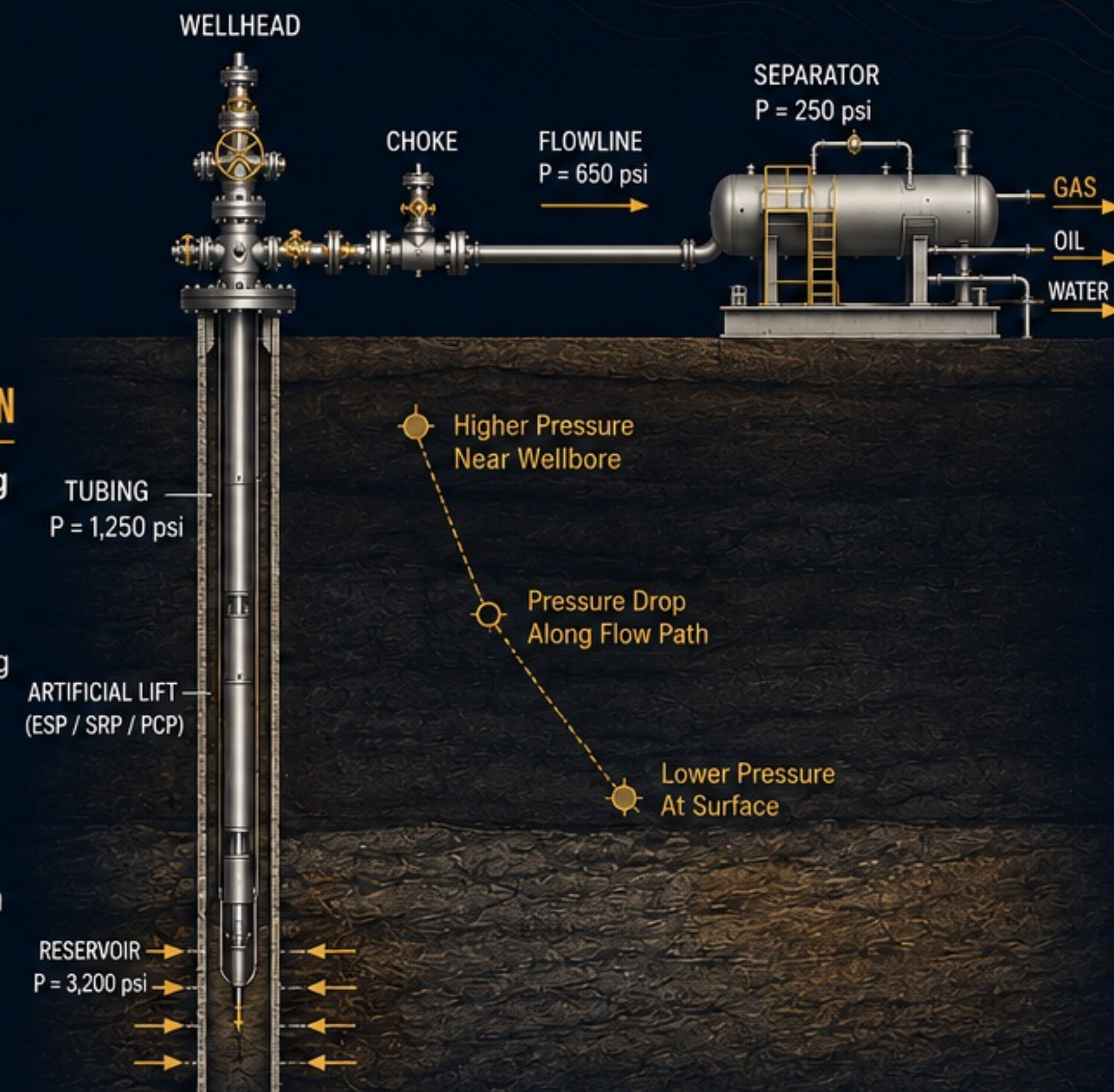
We define what to monitor, what is missing, and what will most reduce uncertainty.

Intervention Screening And Opportunity Ranking

We screen technical options and rank by impact, risk, and implementation needs.

Clear Technical Recommendations And Next Actions

We provide concise recommendations and a practical plan for execution.



Clear Diagnosis. Defined Options. Better Production Decisions.

ARTIFICIAL LIFT AND COMPLETION-PRODUCTION INTEGRATION

The Lift System Cannot Be Optimized in Isolation from the Well.

Petronaq provides specialist-led support for Artificial Lift Assessment and Completion-Production Integration where Well Behavior, Completion Design, Lift Performance, and Operating Conditions materially affect Production Performance and Intervention Decisions. Support may be configured for field performance review, design and optimization studies, troubleshooting, and owner-side technical evaluation.

1) Artificial Lift Engineering

- Method Selection for Reservoir, Well, and Operating Conditions
- Performance Review and Diagnostic Assessment
- Design Support and System Optimization
- Troubleshooting and Improvement Requirements

3) Completion-Production Integration

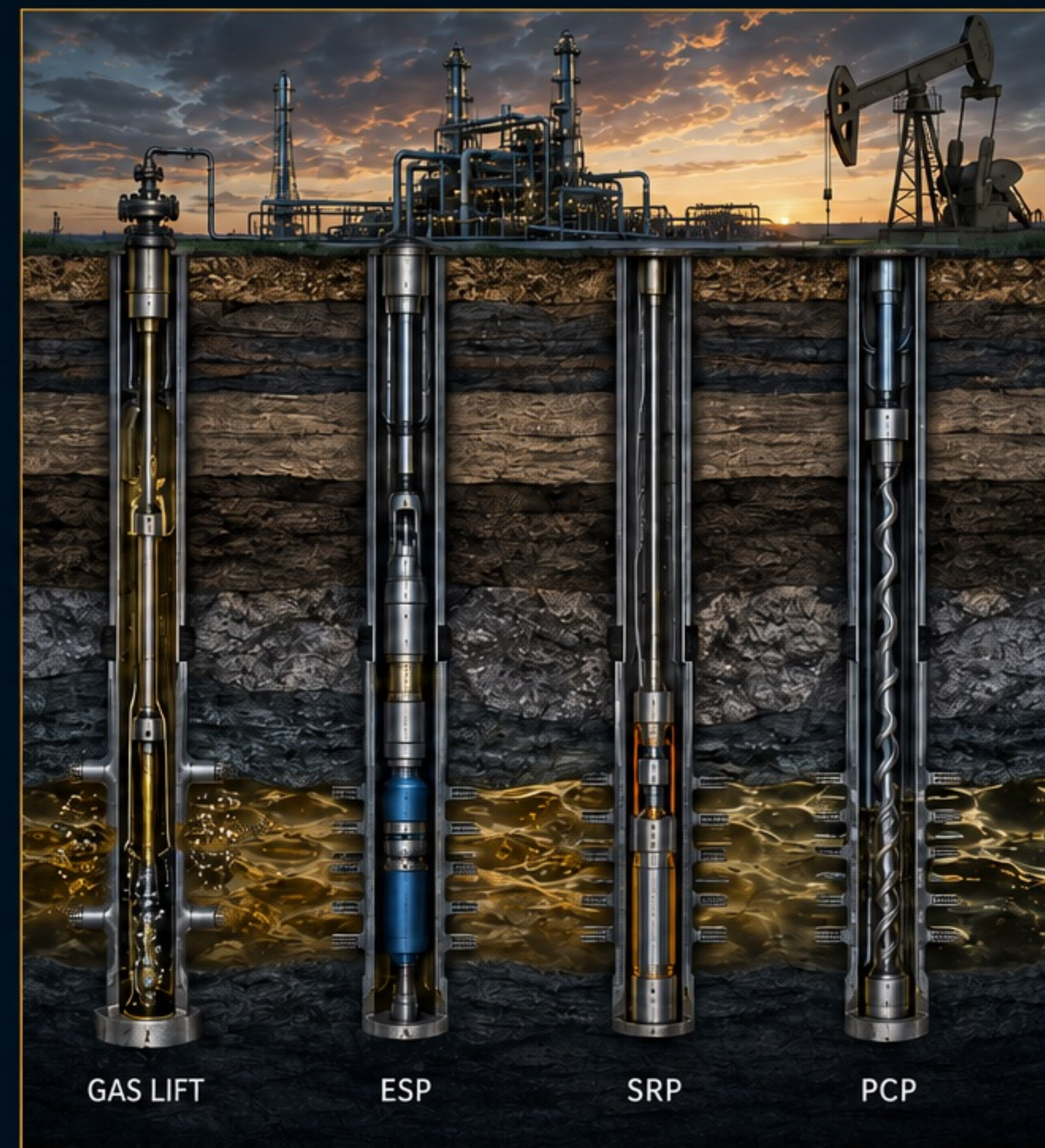
- Completion Configuration and Production Behavior
- Gas-Lift Valves and Related Well Equipment
- ICD-Related Considerations Where Relevant
- Production-Relevant Well Equipment and Interface Review

2) Systems

- Gas Lift
- Electric Submersible Pumps (ESP)
- Sucker Rod Pumps (SRP)
- Progressing Cavity Pumps (PCP)
- Other Technically Justified Lift Arrangements

4) Operating Support

- Surveillance and Performance Monitoring
- Diagnosis of Underperformance or Instability
- Optimization Requirements and Decision Support
- Intervention Prioritization and Next Actions



DRILLING ENGINEERING

FROM PROGRAM BASIS TO TECHNICAL DELIVERY

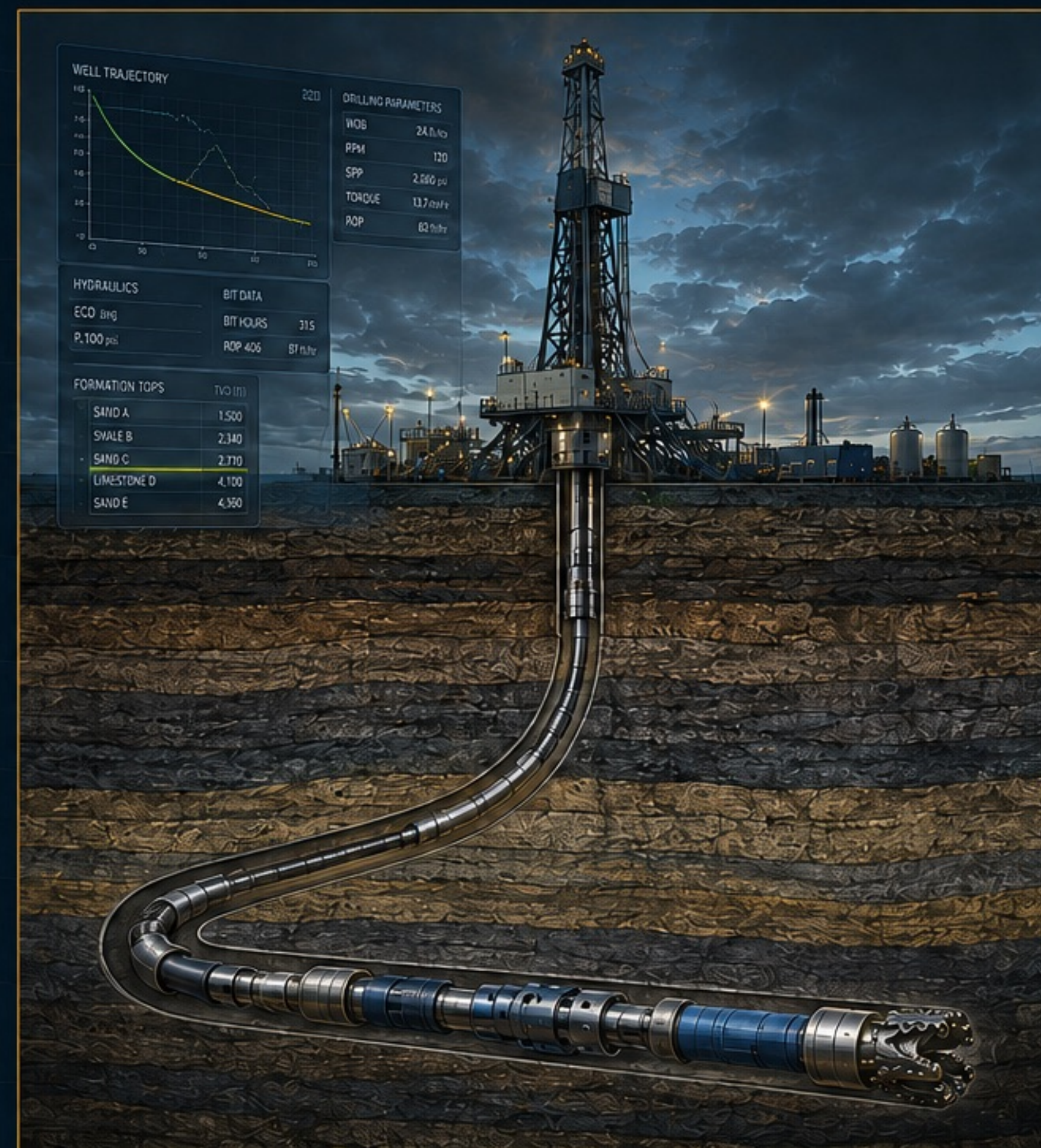
Drilling Decisions Require Technical Depth Before and During Delivery.

Petronaq Provides Drilling Engineering Support Where Program Quality, Well Design, Technical Interfaces and Contractor Performance Require Stronger Technical Depth and Better Decision Support.

Services Include Drilling Engineering, Well-Program Review, Hydraulics Review, Casing Design Review, Bit and BHA Considerations, Directional Design Support, Drilling Technical Interfaces and Drilling-Data Workflow Improvement.

Petronaq Also Supports Technical Review, Specialist Discipline Input, Owner-Side Technical Challenge and Project-Specific Drilling Participation Where Additional Independent Judgment Is Required.

Clear Technical Basis. Better Drilling Decisions.



RIG SELECTION & TECHNICAL BID EVALUATION

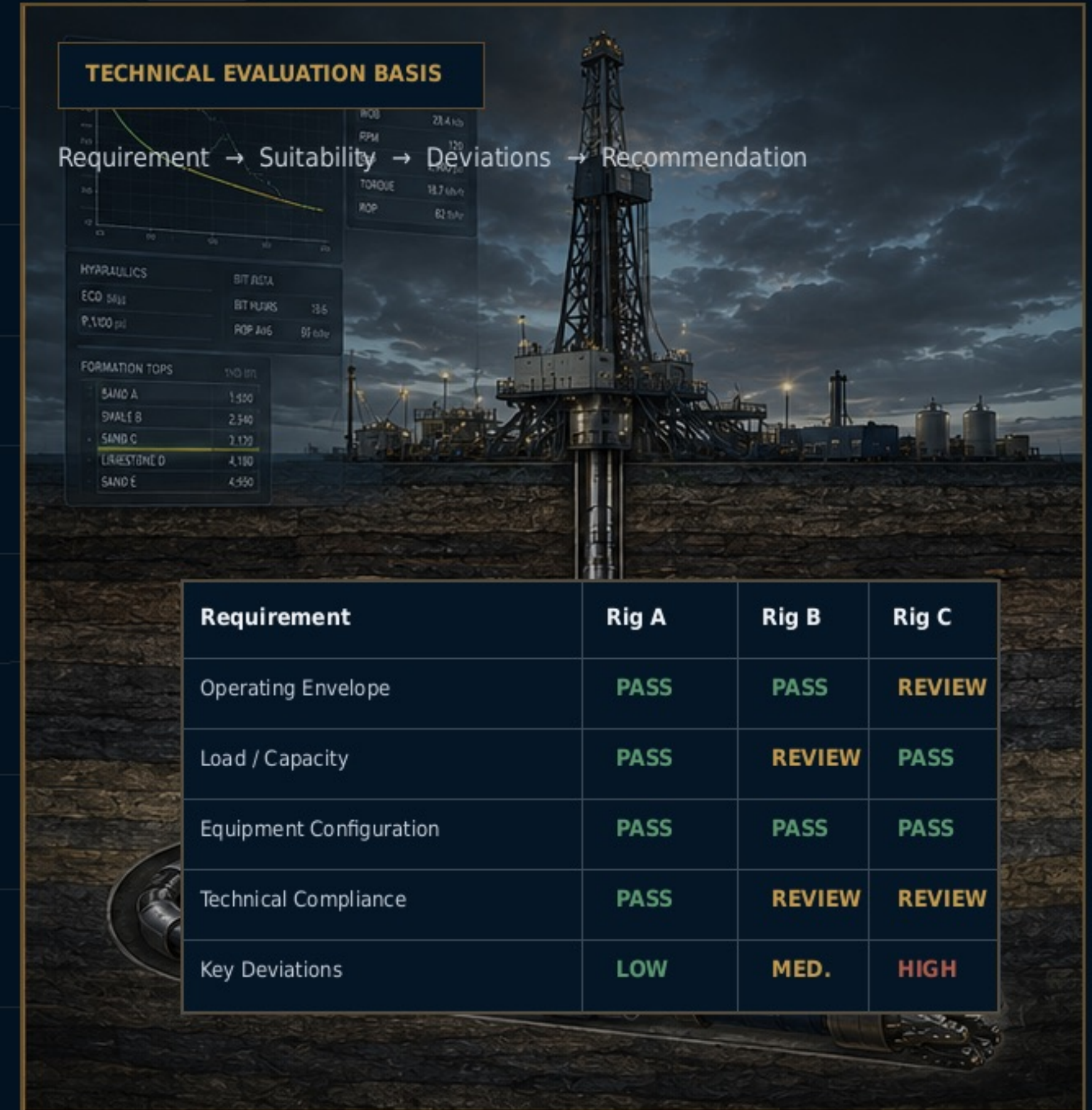
THE LOWEST BID IS NOT NECESSARILY THE RIGHT RIG.

Petronaq supports Owners and Project Sponsors in defining the Technical Requirement, reviewing Rig Suitability, and evaluating Technical Offers against the Operational Need.

What Petronaq Supports

- 01 — Define Rig Requirements
- 02 — Assess Rig Suitability
- 03 — Evaluate Bids & Technical Deviations
- 04 — Provide a Technical Recommendation

The objective is not Procurement Administration.
It is better Technical Judgment before Commitment.



OWNER-SIDE TECHNICAL ASSURANCE

Independent of the Contractor.

Aligned with the Owner's Technical Interest.

Petronaq provides independent Engineering Judgment where outsourced Technical Services, Contractor Deliverables, or material Technical Decisions require the owner to form a clear, defensible technical position.



HOW THE SERVICE WORKS

- 01 Before Award** Define the Technical Requirement before commitment. Review the Scope of Work, examine Technical Proposals, compare Bids, identify Technical Deviations, and determine whether the proposed solution is suitable for the asset, operating need, and stated requirement.
- 02 During Delivery** Review Contractor and Service-Company Deliverables against the approved Scope and Specifications. Challenge assumptions, verify Technical Conformity, identify gaps or unresolved issues, and support clarification or corrective action before weak or incomplete work is accepted.
- 03 At Acceptance** Assess whether the delivered work is technically acceptable. Identify Outstanding Items and Corrective Actions, and provide the Technical Basis needed for acceptance, variation review, or payment-related decisions where appropriate.

Objective Technical Review. Better-Controlled Decisions.

POWER, TURBINES & CRITICAL ROTATING EQUIPMENT

Critical Equipment Performance depends on disciplined Engineering, Reliability and Technical Assurance.

Petronaq provides Specialist Engineering Support for Gas & Steam Turbines, Generators and Critical Rotating Equipment across petroleum, energy and selected industrial facilities.

CONDITION & PERFORMANCE ASSESSMENT

Technical evaluation of Equipment Condition, Performance and Degradation.

MAINTENANCE, OVERHAUL & REHABILITATION ENGINEERING

Scope Definition, Technical Review and Rehabilitation Support.

FAILURE INVESTIGATION & ROOT-CAUSE ANALYSIS

Structured examination of Failure Mechanisms and Performance Degradation.

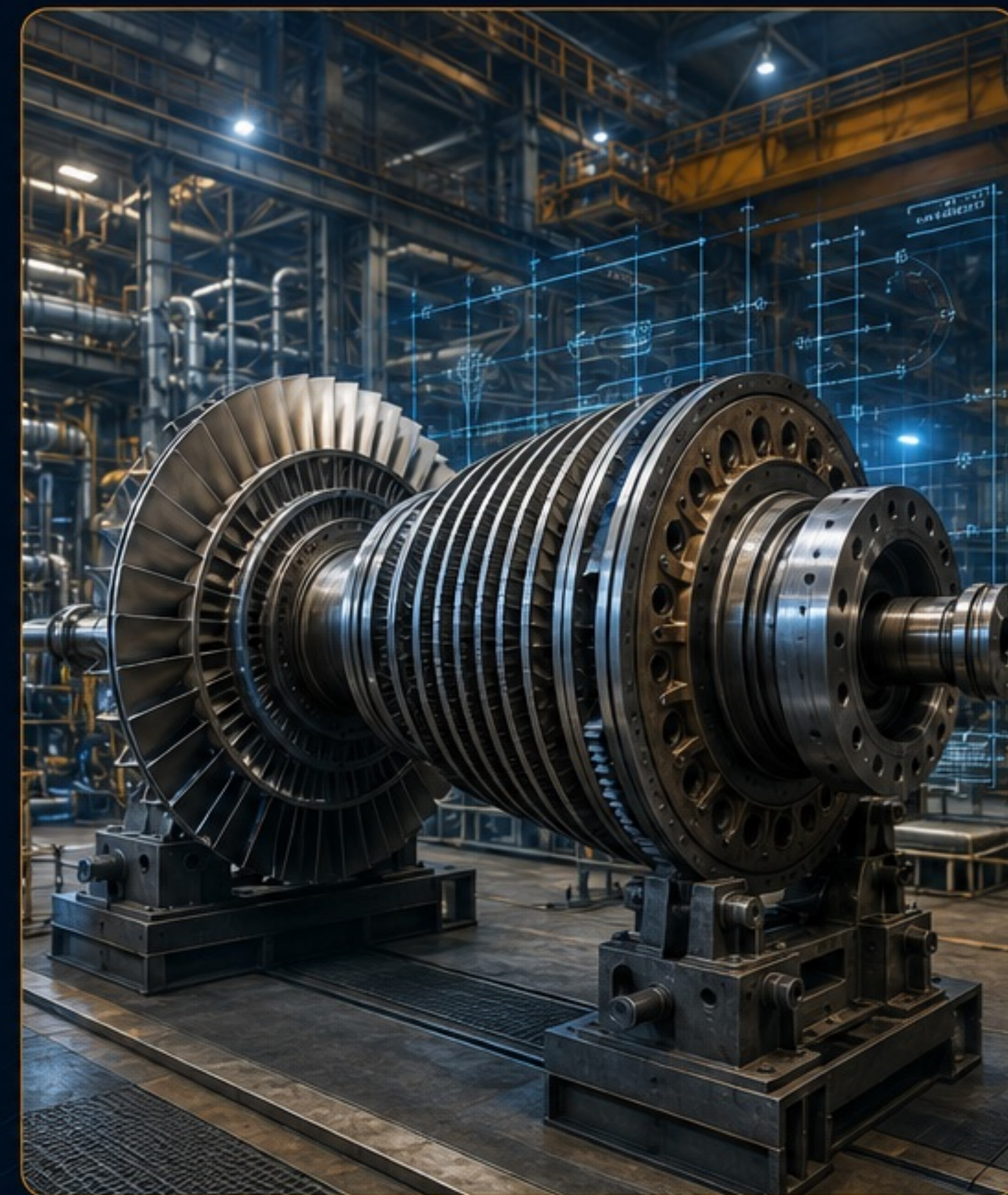
RELIABILITY & INTEGRITY REVIEW

Assessment of Reliability, Operating Risk and Maintenance Priorities.

TECHNICAL ACCEPTANCE & ASSURANCE

Independent Review of Repairs, Overhauls and Contractor Deliverables.

From Diagnosis to Rehabilitation and Acceptance, Petronaq strengthens reliable equipment performance and Operating Continuity.



SYSTEMS, SURVEILLANCE & ENGINEERING INTELLIGENCE

Operating Data becomes valuable when it improves the quality or timing of an Engineering Decision.

Petronaq strengthens Production Surveillance and Engineering Understanding by connecting operating signals, instrumentation, control interfaces and disciplined technical interpretation.

PRODUCTION SURVEILLANCE

Monitor Pressure, Temperature, Flow and operating trends to identify behavior, constraint and performance change.

INSTRUMENTATION & CONTROL INTERFACES

Review field instrumentation, PLC / control interfaces and SCADA-related engineering links that affect visibility and decision quality.

ENGINEERING DATA WORKFLOWS

Structure Production and Drilling Data workflows so technical information is consistent, reviewable and usable.

DECISION SUPPORT

Translate signals, anomalies and trends into prioritized technical action and better operating decisions.

Earlier Understanding. Stronger Engineering Judgment. Better Decisions.



CLAIMS, VARIATIONS & TECHNICAL EVIDENCE

Claims are commercial.
Their technical basis is Engineering.

Petronaq provides Technical Evidence Support for complex Claims, Variations and Post-Event Reviews by examining Scope, Technical Records, Engineering Evidence and the technical basis of change.

Scope & Baseline Review

Establish the Technical Requirement, contractual scope basis and the relevant Engineering baseline.

Technical Substantiation

Test assertions against Records, Calculations, Field Evidence and documented Technical Facts.

Change & Variation Analysis

Examine what changed, why it changed and the Engineering consequence of the change.

Technical Position Support

Provide an Engineering basis for Variation, Payment-Related or Dispute discussions where appropriate.



APPLIED CAPABILITY DEVELOPMENT

Capability That Transfers Into the Work.

Petronaq helps close capability gaps that reduce Technical Judgment, Workflow Discipline, Operating Confidence and Delivery Consistency. Our Applied Capability Development strengthens real petroleum-sector work through structured, work-relevant learning.



01. PETROLEUM TECHNICAL CAPABILITY

Build technical depth across Reservoir, Production, Drilling, Artificial Lift, Subsurface Interpretation and Technical Assurance. This includes applied learning around industry-standard engineering and subsurface workflows.

02. OPERATIONAL & ENGINEERING WORKFLOWS

Strengthen Surveillance, Data Use, Technical Review Practice, Cross-Discipline Interfaces and Decision Workflows that improve consistency, responsiveness and operational performance.

03. PROJECT, PROGRAM & PMO CAPABILITY

Develop practical capability in Project Delivery, Planning, Controls, Risk, Governance, PMO Practice and Project Information Systems—framed for technical and operating environments.

04. AI ADOPTION & APPLIED TRANSFORMATION

Support responsible AI Adoption, AI-Enabled Workflows, Task Automation, Human-AI Collaboration and practical Transformation use cases relevant to petroleum and industrial environments.

05. DELIVERY FORMATS

- Structured Programs
- Workshops
- Mentoring
- Client-Environment Sessions
- Online / Hybrid Delivery



PETRONAQ
Engineering Intelligence

BEGIN WITH THE REQUIREMENT.

petronaq.com

Istanbul, Türkiye — Emaar Square Business Complex

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August 2026