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# CAPABILITY STATEMENT

## Petroleum Technical Consultancy & Assurance

Technical evaluation, specialist  
engineering support, and owner-side  
assurance for complex upstream  
decisions across MENA.

INDEPENDENT • TECHNICAL • DECISION-FOCUSED

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## PROBLEM ORIENTATION

# Where technical decisions become difficult

Upstream decisions rarely depend on one dataset, one model, or one discipline. The difficulty is often not the amount of technical work available. It is whether the evidence, assumptions, and interpretations provide a consistent basis for the decision that must be made.

01

## Model and forecast confidence

A reservoir model may be technically complete while forecast confidence remains limited. Key assumptions or surveillance alignment may still affect how the forecast should be used.

02

## Production underperformance

Reservoir response, well condition, lift performance, operating conditions, and surface-system constraints may interact.

03

## Development comparability

Development options may use different assumptions, constraints, forecasts, or technical bases, making ranking difficult to defend.

04

## Owner-side technical position

A study or contractor deliverable may be complete while the owner still requires an independent technical position before proceeding.

### CROSS-DISCIPLINARY COHERENCE

Across these situations, different disciplines may be working from assumptions that are reasonable individually but not fully consistent with one another.

## A COMMON CLIENT PROBLEM

01

# The model exists. Forecast confidence is still limited.

A reservoir model can be technically complete and still leave important questions about how confidently its forecast should be used. An acceptable history match does not, by itself, demonstrate reliable response under every future scenario. Forecast confidence also depends on assumptions, uncertainty representation, static-dynamic consistency, and alignment with surveillance and production evidence.

## WHAT NEEDS TO BE UNDERSTOOD

## 01 Observed behavior

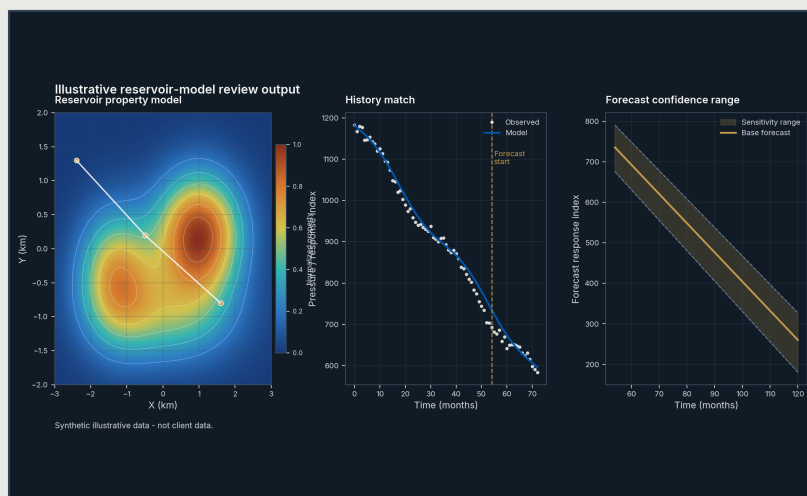
Which reservoir mechanisms and assumptions are actually supporting the history match?

## 02 Forecast sensitivity

Which assumptions have the greatest influence on forecast outcomes and scenario ranking?

## 03 Evidence alignment

Is model behavior consistent with pressure, production, material-balance, and other relevant surveillance evidence?



*Illustrative reservoir-model review output - synthetic data, not client data.*

## HOW PETRONAQ CAN SUPPORT

Petronaq can review model behavior, history matching, material-balance consistency, forecast assumptions, surveillance alignment, and scenario comparability within a defined technical scope. The purpose is to identify where forecast confidence is well supported, where material uncertainty remains, and what additional technical work could improve the basis for the decision.

## DECISION SUPPORTED

Whether and how the forecast can support the next technical or development decision.

## A COMMON CLIENT PROBLEM

02

# Production is underperforming. The constraint is not obvious.

Production underperformance is not always caused by one part of the asset. Reservoir response, well condition, artificial-lift performance where relevant, operating practice, backpressure, and surface production-system limits can interact. When these factors are reviewed separately, the apparent cause may not be the material constraint.

## WHAT NEEDS TO BE UNDERSTOOD

## 01 Observed performance

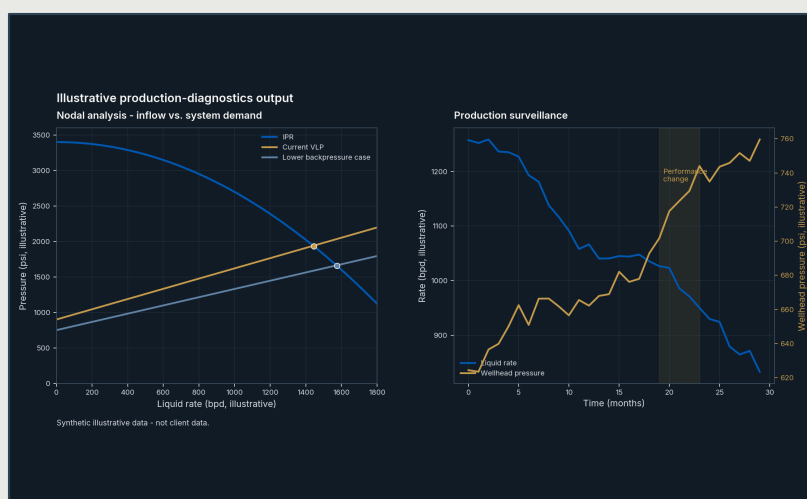
What do the available production, pressure, well, and operating histories actually show?

## 02 Constraint location

Is the main limitation associated with reservoir inflow, the well, lift performance, operating conditions, the surface system, or an interaction among them?

## 03 Further evidence

What can be established from existing information, and what additional surveillance or engineering work is justified?



*Illustrative production-diagnostics output - synthetic data, not client data.*

## HOW PETRONAQ CAN SUPPORT

Petronaq can support production-performance assessment, well and system review, constraint screening, and examination of operating and production-system interactions within the agreed scope.

## DECISION SUPPORTED

Where technical and operational attention should be focused next.

## A COMMON CLIENT PROBLEM

03

# Development options exist. The comparison basis is not consistent.

Development and redevelopment decisions often involve several technically credible options. The difficulty begins when those options are not built on the same assumptions, constraints, data treatment, or evaluation basis. Each option may be reasonable on its own, but the resulting comparison can still be difficult to defend.

### WHAT NEEDS TO BE UNDERSTOOD

#### 01 Comparison basis

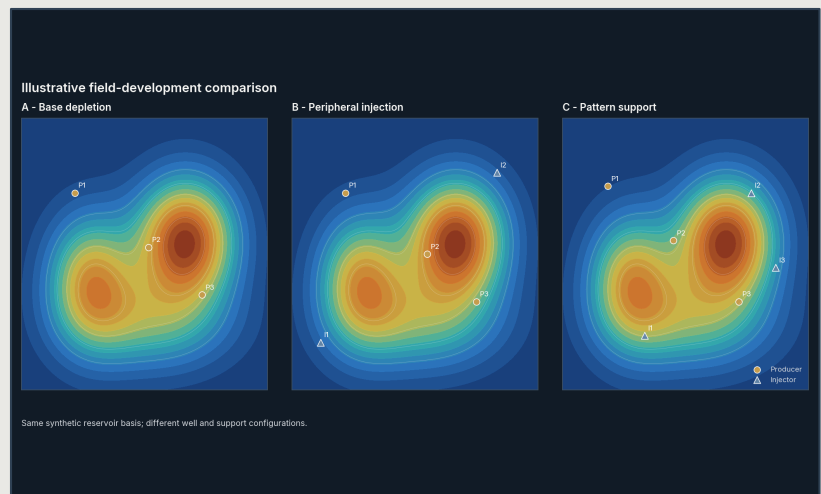
Are the options truly being compared on a like-for-like technical basis?

#### 02 Material assumptions

Which reservoir, well, production, facility, or development assumptions are driving the difference?

#### 03 Decision sensitivity

Which uncertainties could materially change the ranking?



*Illustrative field-development comparison - same synthetic reservoir basis, different well and support configurations.*

### HOW PETRONAQ CAN SUPPORT

Petronaq can review scenario framing, technical assumptions, model and forecast inputs, multidisciplinary interfaces, and the consistency of the evaluation basis. Where appropriate, options can be placed on a more consistent basis for comparison so that material differences and unresolved uncertainties are visible.

### DECISION SUPPORTED

Which options remain technically credible, what differentiates them, and what should be resolved before selection.

## A COMMON CLIENT PROBLEM

04

# The study is complete. The owner still needs an independent technical position.

A completed study, model, technical proposal, or contractor deliverable may contain substantial analysis and still require independent examination before the owner forms its position. The question is whether the scope, assumptions, evidence, limitations, and conclusions are sufficiently clear for the decision the owner must make.

## WHAT NEEDS TO BE UNDERSTOOD

### 01 Scope and basis

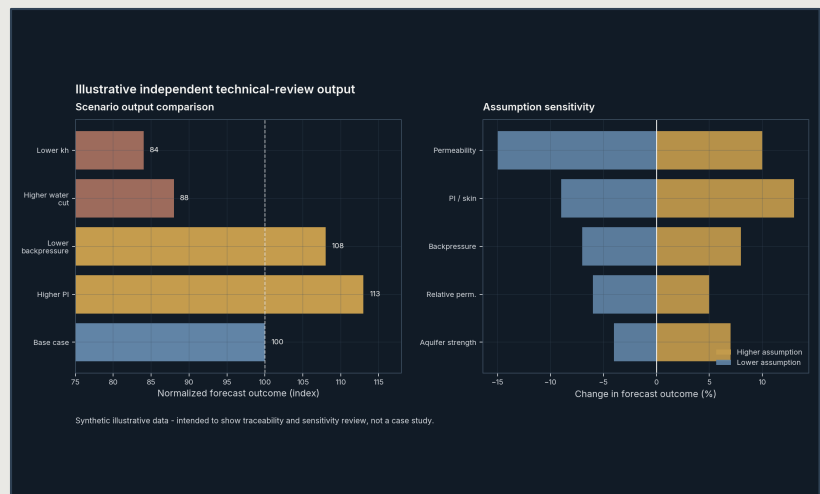
Does the work address the defined requirement, and are assumptions and inputs traceable?

### 02 Technical support

Are the conclusions supported by the analysis, with limitations and uncertainties clearly identified?

### 03 Owner action

What requires clarification, revision, additional evidence, or further technical work before the next decision?



*Illustrative independent technical-review output - synthetic data, not a case study.*

## HOW PETRONAQ CAN SUPPORT

Petronaq can provide independent technical review of studies, models, technical scopes of work, proposals, and contractor or service-company deliverables within an agreed scope. The review can identify material technical issues, clarification requirements, conformity questions, and recommended next actions while preserving the client's decision authority.

## DECISION SUPPORTED

Whether the technical basis is sufficient to proceed, what requires further resolution, and where additional technical attention is justified.

**TECHNICAL RESPONSE**

# Technical capability areas

Petronaq supports defined upstream technical questions through engagement-specific specialist capability. The appropriate disciplines, technical lead, working environment, and responsibilities are confirmed for each assignment.

## 01 Reservoir and Subsurface Evaluation

Review of geological, geophysical, petrophysical, and reservoir evidence; interpretation consistency; model assumptions; and uncertainty relevant to the defined technical question.

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## 02 Reservoir Performance and Forecast Review

Assessment of dynamic model behavior, history matching, material-balance consistency, surveillance alignment, forecast assumptions, and scenario response.

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## 03 Production Performance and System Review

Assessment of production behavior and the interaction of reservoir, well, lift, operating, and production-system constraints within the agreed analytical scope.

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## 04 Field Development and Scenario Assessment

Review of development or redevelopment options, technical assumptions, multidisciplinary interfaces, uncertainty, and the basis used to compare alternatives.

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## 05 Independent Technical Review and Owner-Side Support

Independent examination of studies, models, technical scopes, proposals, and contractor or service-company deliverables to support the owner's technical position.

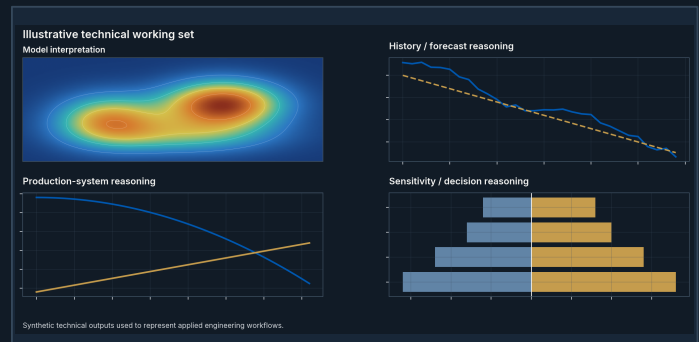
### ENGAGEMENT-SPECIFIC CAPABILITY

Technical participation, specialist availability, software or technical environments, confidentiality requirements, and responsibilities are confirmed for the defined engagement. Prior professional experience remains attributable to the organizations through which it was gained.

# APPLIED CAPABILITY DEVELOPMENT

## Training, workshops, & technical mentoring

Built around real petroleum workflows and operational requirements.



*Illustrative technical working set - synthetic outputs representing applied engineering workflows.*

Petronaq can provide capability development as a standalone client requirement or alongside technical consulting where stronger technical judgment, workflow capability, or team alignment supports the operational objective. The emphasis is on the work participants are expected to understand and perform - not simply on generic classroom content or software functions.

### DELIVERY MAY INCLUDE

#### 01 Courses and technical training

Structured learning around defined petroleum engineering subjects and technical workflows.

#### 02 Applied workshops

Interactive sessions built around engineering problems, scenarios, datasets, models, or decisions.

#### 03 Technical mentoring

Focused support for engineers or technical teams developing deeper workflow capability.

#### 04 Client-environment sessions

Capability development delivered within approved client technical environments where permitted.

### BUILT AROUND THE TECHNICAL REQUIREMENT

Programs may address reservoir and subsurface interpretation, model and forecast review, production-performance analysis, field-development reasoning, multidisciplinary integration, and technical review. Delivery format, datasets, specialist participation, and technical environment are confirmed for each requirement.

## CONTROLLED ENGAGEMENT

# Begin with the technical requirement

A useful engagement begins with understanding the technical question, the decision it affects, the available information, and the disciplines required. Detailed technical or commercially sensitive information should be exchanged only after appropriate controls are established.

## 01 Requirement

Begin with a concise, non-confidential description of the technical question, asset context, available information, and expected timing.

## 02 Confidentiality

Where required, establish appropriate confidentiality, ownership, access, and information-transfer arrangements before detailed material is exchanged.

## 03 Scope, specialists and technical environment

Confirm the work to be performed, exclusions, technical responsibilities, proposed specialists, data requirements, and applicable software or client environments.

## 04 Proposal

Define the technical approach, outputs, schedule, responsibilities, assumptions, commercial terms, and engagement conditions.

## 05 Controlled delivery and review

Perform the agreed work through defined technical responsibilities, controlled information access, appropriate review, and clear communication of findings, limitations, and next actions.

### CLIENT AND TECHNICAL CONTROLS

Client information remains under client ownership and control.

Licensed software and technical environments are confirmed for each engagement.

Digital or AI-assisted methods are used only where appropriate, lawful, controlled, and client-approved where required.

Client information is not used to train public or external AI models.

**Begin with the technical requirement.**

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Confidentiality, data ownership, access, transfer, specialist participation, software environments and digital methods are confirmed engagement by engagement.