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POWERING A **SUSTAINABLE** TOMORROW

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THE CHALLENGE

A Field Development Plan (FDP) provides the best technical solution and guide for optimizing the development and production of an oil or gas field.

FDP studies outline the necessary information for operators to assess all the economic decisions required to make a positive economic return from working a field.

Central as they are to field investment and operation, FDPs can be complicated by factors such as reservoir structure uncertainty, petrophysics, the potential for well anti-collision, and fluid flow dynamics. This range of possibilities requires inputs from multiple disciplines, currently working in silos.

Poor initial characterization of reservoirs, and not fully integrating available development technologies can adversely affect evaluating the amount of recoverable reserves from an Asset.

This can lead to an inaccurate estimation of recovery.

| SUBSURFACE & SURFACE		PRODUCTIVITY	INTEGRATION
Large number of inactive strings	Challenging reservoir water dynamics	Large model size with long runtimes	Lack of integration leads to fallback in production guidance
Challenging recovery due to reservoir complexity	Well placement in complex reservoirs	Time-consuming model review & opportunity generation	Rapidly outdating models requiring frequent updates
Complex reservoir fluids types			

THE SOLUTION

AR360 (Advanced Reservoir 360) is an intelligent reservoir management and short-term production optimization solution offering a comprehensive 360° view of your reservoir by integrating various workflows. It consists of 3 key modules:
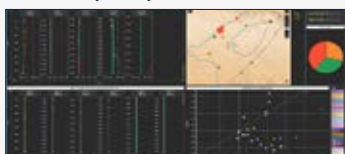
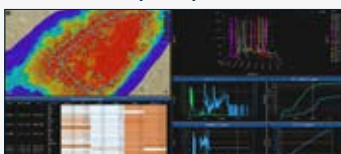## 1 Digital Reservoir Model Reviewer (DRM)

Histort Match
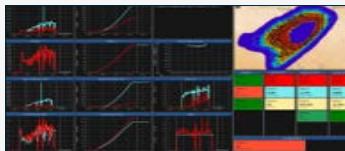
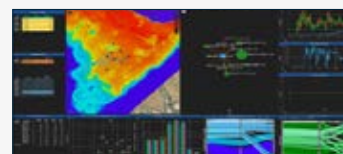**Volumetrics**

Perm. Multipliers

Pressure/RFT/MDT
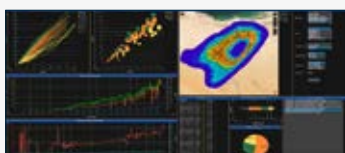

Connections/VEP/CAL

Streamlines

- Automated Assessment of Reservoir Model Quality and predictive capability
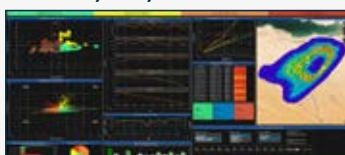- Advisory system to enhance future model generation
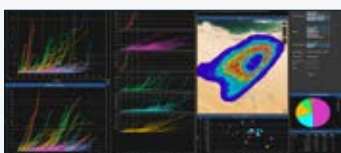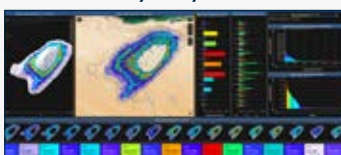
2 Reservoir Performance Advisor (RPA)

Histort Match
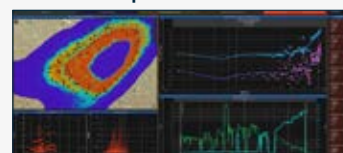

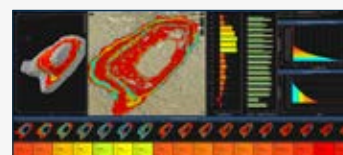**Volumetrics**

Perm. Multipliers

Pressure/RFT/MDT
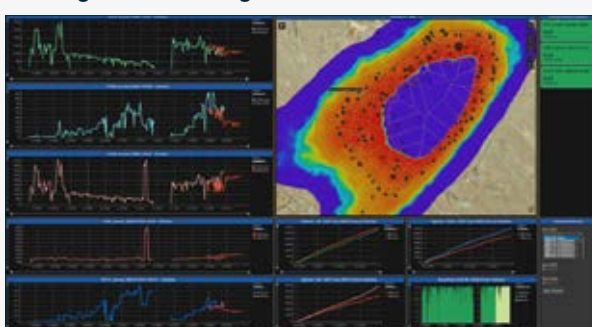

Connections/VEP/CAL

Streamlines

- Automated assessment of Production Performance and a recommendation system for workover candidates selection
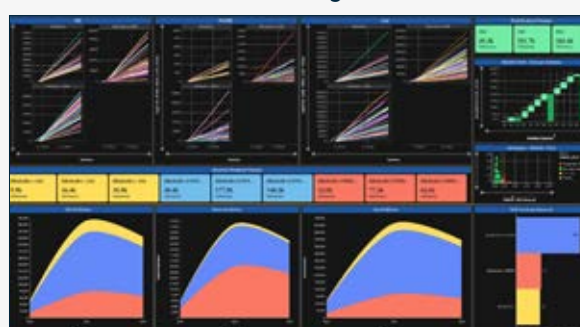- Identify opportunities to maximize recovery factor

3 AI-Assisted Prodution Forecast (AI-PF)

Existing Wells – Intelligent Production Forecast

Short-term Production Planning

- AI-Assisted Production forecast leveraging ML and Physics (Mins vs Days)
- Generate Multi-Scenario data driven production profiles to optimize in-fill well placement

AR360
PERFORM WITH **AIQ**

An intelligent reservoir management and short-term production optimization solution offering a comprehensive 360° view of your reservoir by integrating various workflows.

Up to 10%
Boost oil recovery from water flooding operations

75%
Efficiency gain in reservoir model reviews

Up to 20%
Extension in life of active wells over 5 years

Up to 10%
Cost reduction in drilling new infill wells over 5 years

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