

Project summary



Objective

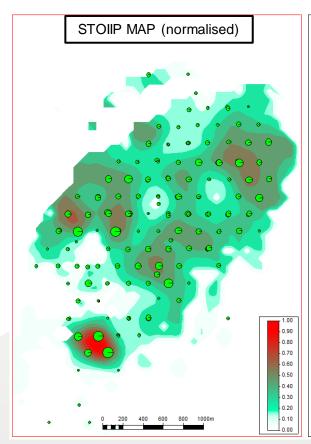
- Identify area of opportunities in a highly mature asset
- Develop a set of activities and associated profiles

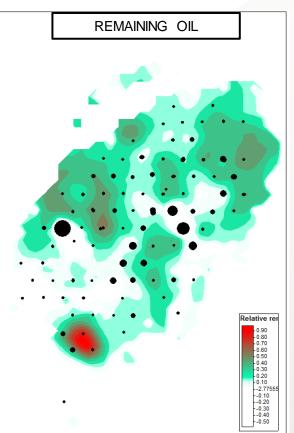
Workflow

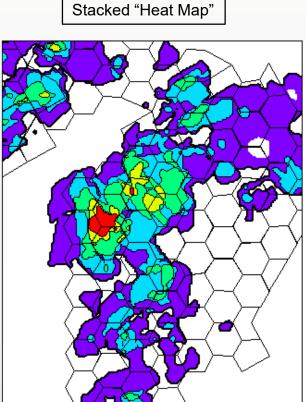
- Review current static model to calculate initial oil-in-place
 - Petrophysical workflow was established to generate a full analysis of older generation logs resulting in a more robust petrophysical interpretation of reservoir properties
 - Fluid contacts were adjusted based on an integrated approach of fault compartment analysis, well correlation and production.
- Generate a set of analytical maps to identify areas of potential un-swept oil for each reservoir interval
- Rank derived opportunities in terms of size and ease of development profiles
- Design a sequential pattern waterflood to recover remaining oil in key areas

Map workflow







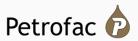


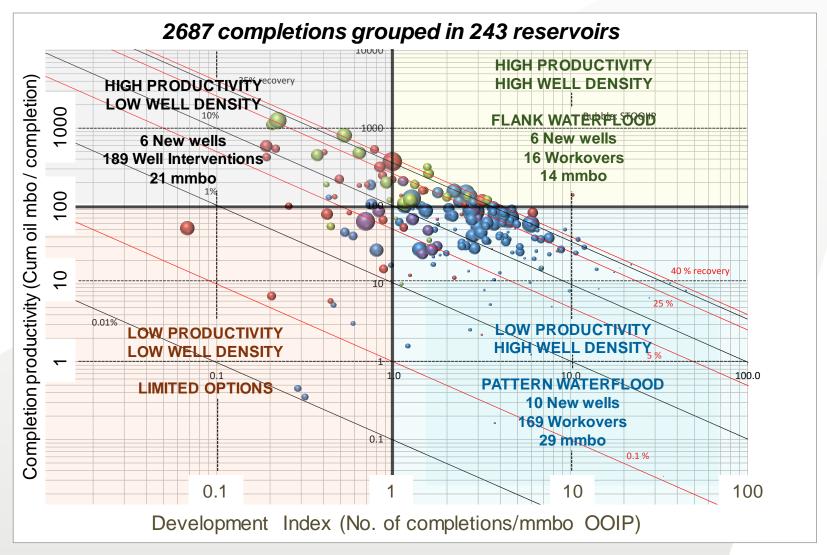
- 1. Output STOIIP thickness map [Sum Property * Height]
- 2. Normalise result (0-1)

- Deduct normalised CUM from initial STOIP map
- 2. Result is relative remaining oil map

Stacked Map with sweet spots over various zones was generated to target best areas

Reservoir opportunity Matrix





RESULTS

5% incremental recovery and a viable exploitation plan for the next 25 years

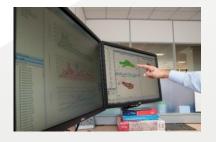
Petrofac

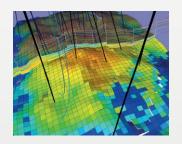


An oilfield service company providing services across the asset life cycle in 29 countries

Capabilities: Subsurface, Subsea & Facilities expertise to support Engineering, Construction, Production Operations, Well Engineering & Training

Our subsurface skills span **geoscience**, **reservoir engineering**, **production** & **well engineering**





- We integrate subsurface skills with wider Petrofac capabilities to provide a full range of field and infrastructure development and asset enhancement services.
- We can address a range of common challenges to help improve recovery from maturing fields, depleting reservoirs or where poor or minimal reservoir data and models exist.
- This integrated approach enables us to execute fast-track oil & gas projects that are delivered within various commercial models including Green Field Developments, Mid-field Life Production Enhancement & Brown Field/Late-life Optimization.

Subsurface staff have more than 200 man years of experience from operators (including Petrofac assets)