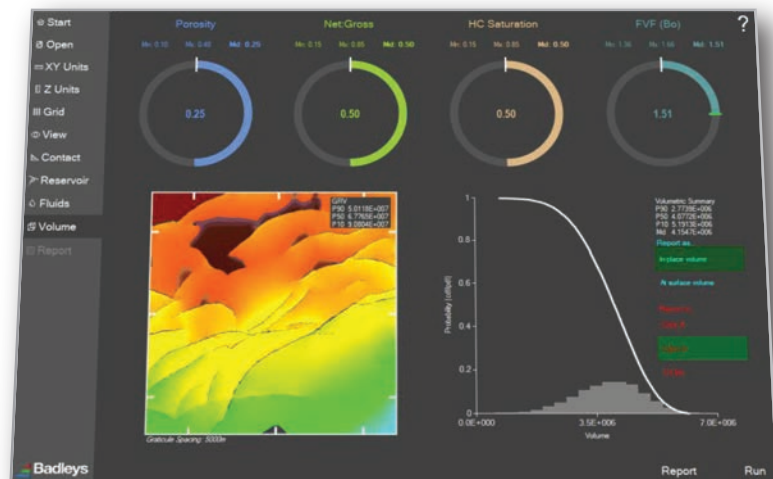


RAPID VOLUMETRIC CALCULATION OF STRUCTURAL & STRATIGRAPHIC TRAPS



PROGRAM OVERVIEW

ORC (Optimised Resource Calculator) enables rapid volumetric calculation of structural and stratigraphic traps using either surface data or map images. ORC automates the complexity normally associated with volumetric analysis by using highly optimised algorithms, allowing the user to report on volumes in a matter of minutes.

KEY FEATURES

Optimised Resource Calculator

Define the reservoir/trap and assess volumetric ranges in terms of reservoir properties, fluid type and geometry by running an almost exhaustive set of stochastic simulations – in seconds

P10, P50 and P90 reported & displayed

Results are summarised as both pdf and cdf plots, accompanying summary statistics relaying the uncertainty captured in the simulation outputs (P10, P50 and P90) and a reservoir map

Use geometric data (surface, point set, grids) or images

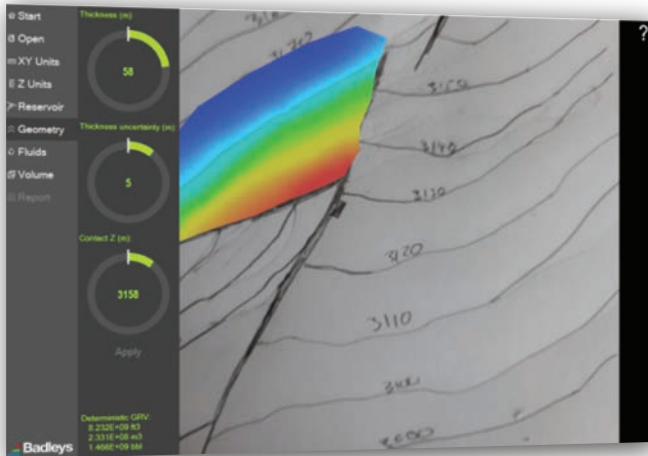
ORC can use an upper (and optionally lower) surface or simply an image of a map to create the geometry required to define the trap

Fast & Efficient

Intuitive design & optimised calculation engine mean models can be set-up and run quickly

Easy To Use

Designed for all geoscientists who require a fast assessment of volumes without the requirement for labour-intensive and time-consuming parameterisation



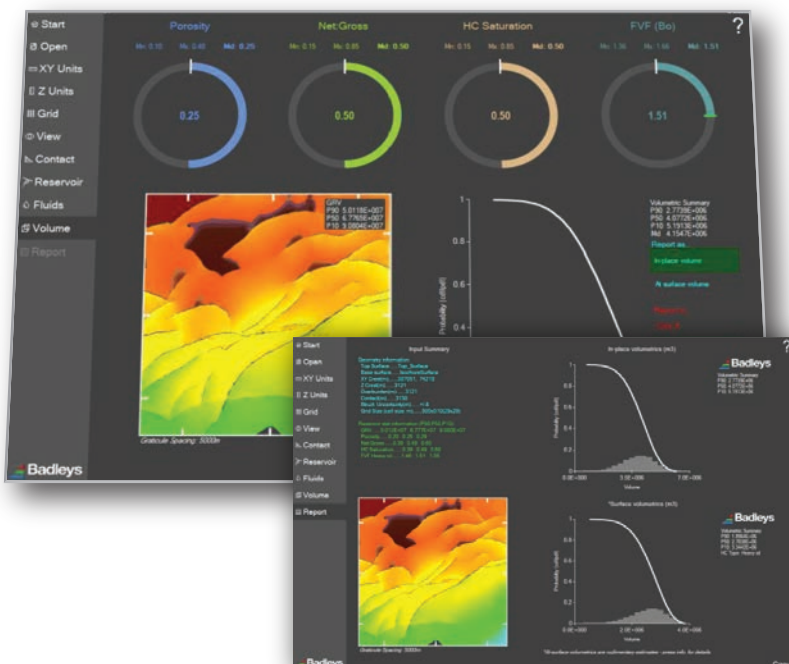
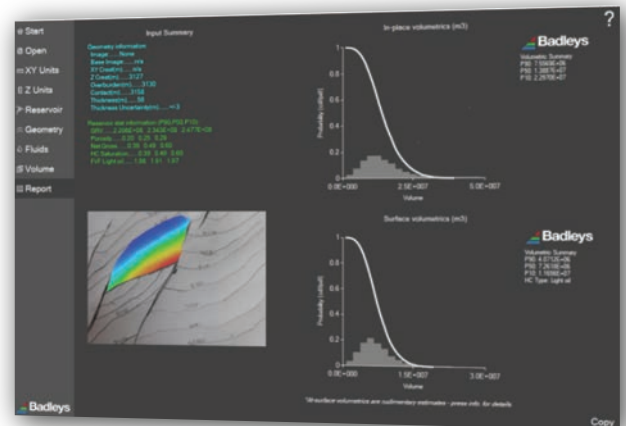
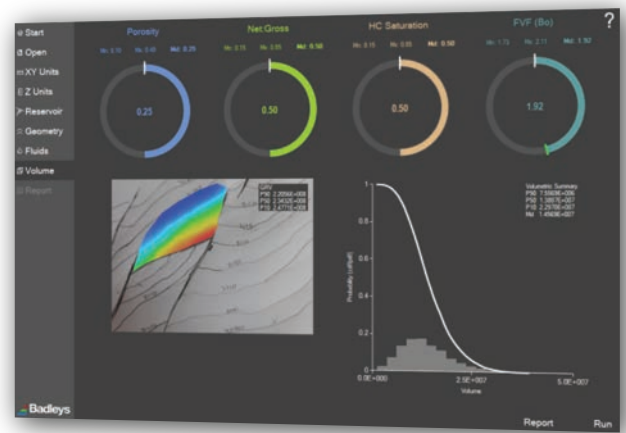
Example of a sketch map that was photographed, digitised and analysed in minutes.

ORC can work with either geometric data or image data to capture 3D geometries:

- ◆ Geometric data can be supplied in a number of industry standard formats including GOCAD (trimesh), grid data (such as zmap) as well as point sets (ssv).
- ◆ Image files (such as bmp, jpg) can be loaded and rapidly digitised creating new depth maps and extracting the geometry.

CALCULATING RESERVOIR GEOMETRY

- ◆ The prospect is assessed in terms of reservoir properties, fluid type and geometry by running an almost exhaustive set of stochastic simulations.
- ◆ Results are supplied for both in-place and at-surface conditions.
- ◆ Reservoir properties (and their distributions) can be fine-tuned prior to each suite of simulation runs.
- ◆ Results from the simulation are summarised in a number of statistical plots.
- ◆ Accompanying summary statistics are provided that capture the uncertainty associated with the volumetric estimates.
- ◆ A report can be automatically generated that summarises the findings of the volumetric simulations



AUTOMATICALLY GENERATED REPORT

- ◆ Summarise the input variables (and associated distribution information).
- ◆ Provide a geometric synopsis.
- ◆ Output pdf and cdf plots (recording the output for the simulation runs for both in-place and estimated at-surface volumes).
- ◆ The data captured in the report can be copied and pasted into other MS Windows applications (such as Excel, Paint and PowerPoint).