IC Reservoir Performance Monitoring

Go beyond a static view of your field. Add a time-element that allows dynamic reviews of the history of your well data pulling in that 4th dimension to your 2D displays can lead to more effective reasoning and evaluation prior to any in depth modelling. Understanding the history of an area can lead to a more creative and data reflective evaluation for future planning..

In addition to the high-quality visualisation available with the IC Geology, RPM allows the historical data for your wells or field to be brought in to the mix.

Build links between your production databases and synchronise regularly to allow updated view across your maps. Additional options when building grids can generate dynamic spatial interpolations across your area.

Dynamic queries can be generated to highlight the state of your wells as you step through the history of your well. Integrated with the structural and other geological data, you can build a complete view of your production through time.
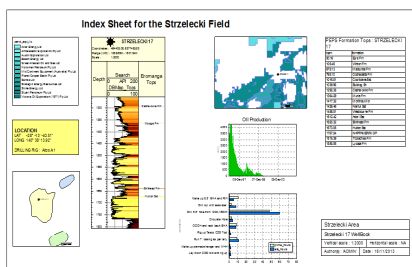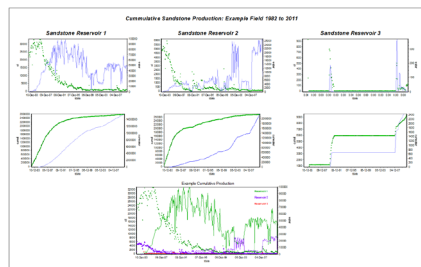

IMAGE 1: DYNAMIC SINGLE WELL SUMMARY
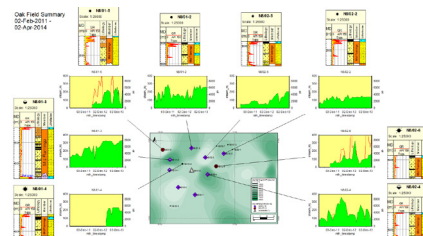

IMAGE 2: PROFILE TEMPLATES

IMAGE 3: BASIN WIDE DYNAMIC SUMMARY

Be insightful. Move to IC. Here are seven reasons why:

- **Its cleaner interface.** Working in one solution saves time, money and effort when interrogating your data to ensure confidence in your results.

- **Its adaptable display.** Integrate cross-functional analysis in a single dynamic interface.

- **Its interactive visualisations.** Utilise standard display styles to communicate across teams while modifying and updating interpretations directly during team discussions to see direct impact together.

- **Its visual, tidy access.** Easily build, display and share data across your teams to reduce uncertainties and QC all your data together.

- **Its smarts.** Utilise the stratigraphic rules you put in place to quickly understand, not only the vertical, but lateral relationships in the subsurface driven by geological concepts rather than computer alogrthims.

- **Its security.** Work across teams and partners wihtout limit, knowing you can set the level of access for each to ensure control is maintained.

- **Its transparent control.** Utilise powerful tools to standardise, manage and modify data in bulk of individually quickly. Work without interruptions and track any changes for an optimal user experience.

Interactive **Correlations**

Geoactive

Features

Connectivity
Build connections between IC and external data sources to add date qualified data to any interpretation. Connect to any external ODBC external data, automatically or manually. Connect to any external ODBC database and synchronise your data automatically or manually to get up to date data.

Dynamic Mapping
Spatially-aware maps show well locations and use time-based data to build dynamic grids that automatically update the display based on the dates chosen. Add dynamic queries to highlight either numerical or text based changes in the well data over time. Integrate the lateral variation with time variations to understand your reservoir performance in a single map.

Profile Templates
Use the time-based data to plot pie charts, or XY plots that show changes across time. E.g. variation in production fluid rates/volumes, drilling activity, field economics or water chemistry. These plots can be added to a single or multi-well summary chart to expand the data displayed to include that time-element.

3D Viewer
Integrate subsurface topography surfaces, seismically derived fault polygons with time-based data plotted along wellpaths to highlight any changes through time for production, water cut, pressure etc. The dynamic visualisation integrates with standard well data in a flexible 3D Viewer easily.

Single Well Summaries
In addition to standard plots (scatter, ternary and heatmaps) Profile Templates can be added to the montage summary that can be set to dynamically update based on a specific date range. It is possible integrate date-qualified logs to a wellstick to show a colour gradient depiction of any change through time in the log properties (e.g. temperature or pressure).

Basin-Wide Summaries
Centred around a map, multiple wells can be plotted as, not just wellsticks to show the depth, but as Profile templates to show a time-based dataset. Integrating the map display with the depth element and the time element can highlight reservoir zones that should be reassessed or shut-in. This additional presentation style opens the standard chart plots to an entirely new dynamic view.

Well Patterns
When working with larger datasets, for example wellbores that cover large fields and number in the hundreds of thousands, a Pattern can be used to split out smaller area that include a related group of wells. These can be used to build complex multi-well chart summaries that include these subsets of wells and be easily compared to each other Pattern area.

It's the most powerful way to work. Geoscientists can:

- Facilitate the integration of production time-based data with geological data to promote integration across multidisciplinary teams

- Provide dynamic displays of time-related data through plotting markers on maps. This allows integrated teams to visualise variations across the area over time

- Directly compare a suite of time-varying logs by stepping through time in 2D or 3D, and correlate easily with static data

- Use field data from production databases, spreadsheets and third party measurements to create a history of a field which can be viewed alongside discrete and log data with geological data to promote integration across multi-disciplinary teams

- Combine new dynamic display options in wellsticks with production templates for plotting spatial distribution of well data to identify or highlight areas of deeper study

- Visualise changes in production over time, throughout the field to capture a more comprehensive view of the subsurface

- Define well patterns to create automatic charts and maps quickly for regular reviews

Geoactive

Interactive Correlations

Get in touch

Please visit www.geoactive.com for more information
Or email softwaresupport@geoactive.com

Training
We offers training courses in various locations around the world for both IC and IP. We can also provide tailored in-house courses for individual clients, please email softwaresupport@geoactive.com

Sales
We have regional Account Managers to ensure all non-technical questions are answered across Europe and Scandinavia, the Americas, the Middle East, Asia and Pacific. To contact one of our sales teams for any of these regions, please email softwaresupport@geoactive.com

Software Support
Our web portal provides first class support by a team dedicated to our subsurface software products.
Email: ICsupport@geoactive.com
or Call:
UK: +44-2036088024
USA: +1-713-489-3995

IC_Mod.Flyers_RPM_2022_V2.0

Updated: 8.September.2022