MGO HMOD

Depth Conversion with quantified uncertainty

MGO HMOD Depth Conversion with quantified uncertainty generates a reliable base case and data-driven P_{10} – P_{50} – P_{90} depth and gross rock volume estimates. This leading software is ideal for exploration and field development studies.

Method

- Depth conversion with seismic processing velocities and wells
- Automatic parameter optimization calculates a large number of depth realizations, exploring the full range of possible depth conversions
- Gross rock volume for prospects is calculated with a script which is adapted to each individual study
- Statistics are calculated as grids and a 3D probability model from the realizations

Areas of use

- Exploration decisions which depend on depth conversion uncertainty
- Exploration and field development studies where P_{10} – P_{50} – P_{90} depths and/or gross rock volumes are required
- Field operation, unitization and redetermination studies where the best possible depth conversions are required

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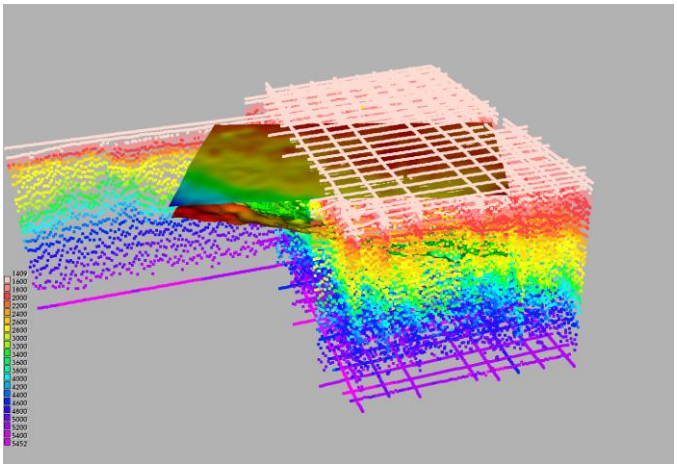
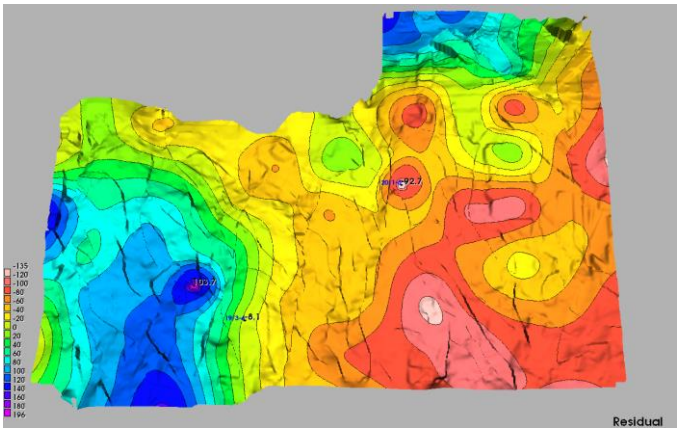
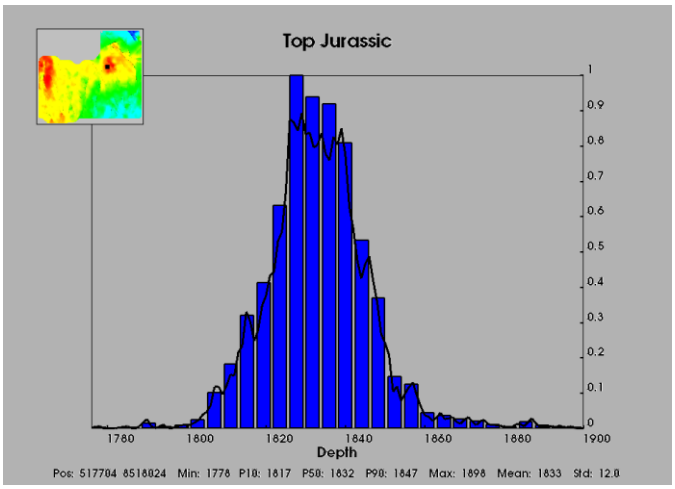


Seismic processing velocities and time grids



Residual velocity map shows lateral trends



Depth uncertainty in a selected location