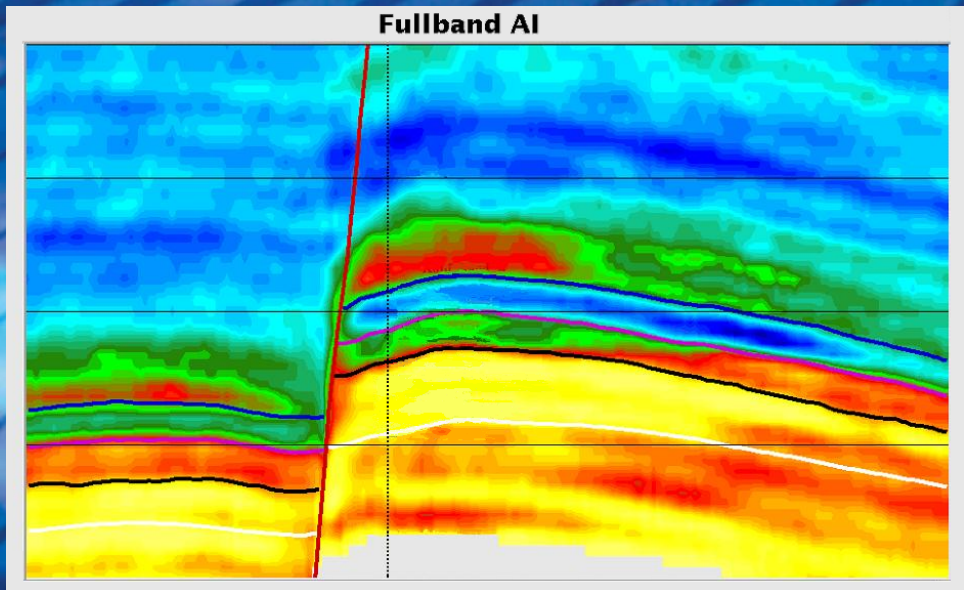


The power of 3DiQ in a reservoir flow model



Objective

To obtain a better understanding of the storage performance of the Bierwang gas storage field, Ruhrgas acquired 3D seismic data and asked Jason to undertake a full field 3D integrated Quantitative (**3DiQ**) inversion and a geostatistical modeling study to develop high resolution reservoir models.

Implementation

To improve the confidence in the final reservoir models a multidisciplinary approach was taken, performing a full integration of seismic with petrophysical and geological data. Ruhrgas and Jason used Jason's proprietary **StatMod**® technology for geostatistical modeling and inversion to create the desired high-resolution 3D reservoir models and to capture model uncertainty.

ruhrgas

Drilling Confirms Accuracy Model

This multidisciplinary integrated field study demonstrated impedance to be a superior basis for reservoir interpretation, both for stratigraphic and fault framework interpretation. A heavily revised and upgraded subsurface model was obtained compared to the initial 3D seismic interpretation.

The delivered full 3D reservoir models incorporate structure, volumetrics, porosity and permeability for dynamic flow modeling, based on a detailed rock lithofacies model.

The revised interpretation and geostatistical modeling results are fully consistent with the results and information from a post study well, drilled based on the Jason study results, confirming the accuracy of the **3DiQ** subsurface model.

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