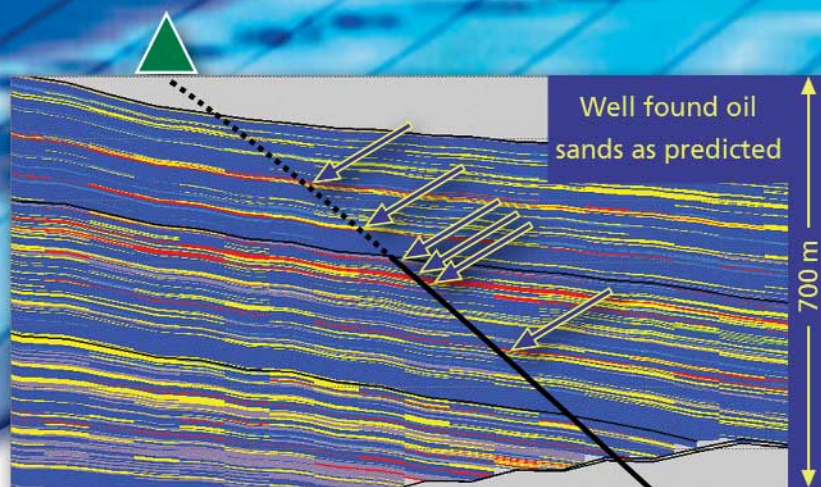


Oil and Gas Sands Prediction for Thai Shell



Well trajectory and predicted oil sands, confirmed by drilling.
Reds show oil sands.

Objective

Thai Shell needed to predict the distribution and connectivity of thin sands in one of its reservoirs for well-planning purposes. Seismic data alone could not delineate these sands because they are below seismic resolution. Shell and Jason applied Jason's geostatistical inversion technology (StatMod) to create 3D reservoir models, using 3D seismic data, well logs and petrophysics data as key inputs.

Prediction

Oil and gas sands were distinguished from dry sands, and the spatial connectivity of the sand bodies was modeled. Six separate, stacked oil sands, some as thin as three meters, were predicted.

Drilling results

The first new well after model construction proved the predictive capability of the inversion model; the six predicted oil sands were confirmed by the drill bit. The model is now being used to plan new wells and drive reservoir simulation of the field.

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