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While sub-surface uncertainties are sometimes the most significant, project execution risk and commodity price uncertainty can be equally or more important and should not be overlooked. GCA’s fully integrated approach allows all these risks to be evaluated and mitigations plans prepared.

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GCA retains licenses for the most commonly used packages, and rents others as required.

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**Major Gas Field in Asia**

On behalf of an Asian NOC, GCA performed detailed analysis of log, core, fluid and well test data, constructed a reservoir simulation model and used it to prepare optimum development and production plans under various scenarios. GCA additionally prepared a reserves report, and made recommendations for stimulation of the various reservoir zones.

**Marginal Offshore Field in Nigeria**

GCA was engaged by an independent Nigerian operator to perform an integrated study of a marginal field producing oil, gas and condensate from stacked sandstone reservoirs. GCA’s work included structural interpretation of the 3D seismic dataset, attribute analysis, depth conversion, evaluation of log data, construction of static (Petrel) and dynamic (Eclipse) models of the reservoirs, history matching, forecasting future production both for a “do nothing” case and for an optimized drainage plan, economic assessment and estimation of the reserves. As a result, GCA identified a number of opportunities, including an additional well and recompletions of existing wells, and made recommendations for better reservoir monitoring.
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