

Reservoir Management References

Other Selected Projects

Project	Description	Client & Date
Advisor to a Central European Refinery Group	TRACS Aberdeen has been engaged as a technical and economic advisor on oil and gas acquisitions for a Central European Refinery Group who are aiming to gain an upstream position. An evaluation for an acquisition of a Kazakhstan Company is ongoing.	March 2008
Bugan Field for Brunei Shell Petroleum	TRACS created a geostatic model for the Bugan field. The model specifically addressed the compartmentalisation, fluid contacts and fault sealing potential in this structurally complex fluvial setting.	Shell 2005
Completion Assurance – Thunder Horse BP Gulf of Mexico	This deep and deepwater field is one of the largest in the Gulf of Mexico. TRACS International was the peer review leader for the tubing assurance. This work involved checking annular fluid expansion (AFE) and completion stress analyses. This work follows on from various tubing and casing analyses in this region including detailed AFE failure investigations and vacuum insulated tubing stress analysis.	BP 2001-2002
Completion Design in a Deep Water Basin for Reliance Industries Ltd, India	TRACS International examined in detail all aspects of the completion design for a large deep water (600-1200m) subsea gas field in India. The work included sand control, stimulation, lift performance, production chemistry, metallurgy, and completion equipment selection. The project is in development planning stage and work continues in selecting well locations and completion designs for deeper targets and detailed seabed hydrate prediction and mitigation.	Reliance Industries Ltd 2002
Depositional Prediction and Lithology Review of Vijaya and Vandana Discovery India	A team from TRACS evaluated the wells in the Vijaya and Vanda discovery to assess the detailed depositional environment in order to predict the range of potential volumes the fields may contain. The reservoir is a novel deepwater reservoir type, part of a deepwater MTC (mass transfer complex). Extensive analysis of the core and logs provided new and improved insight into the field, and enable the Operator to make informed decisions on the forward work programme.	Cairn 2007
Depositional Prediction and Lithology Review of Vijaya and Vandana Discovery India	A team from TRACS evaluated the wells in the Vijaya and Vanda discovery to assess the detailed depositional environment in order to predict the range of potential volumes the fields may contain. Extensive analysis of the core and logs provided new and improved insight into the field, and enable the Operator to make informed decisions on the forward work programme.	March 2008
Evaluation of Farm in opportunity of Wintershall offshore Netherland Acreage	TRACS evaluated 10 of Wintershall Netherlands developments to assess the remaining field value and advise a potential farm in partner. The team evaluated the production potential, risks, reward and field liability to determine an overall value to the farmor and farminee.	March 2008
Evaluation of TAQA Netherland Acreage for a potential investor	TRACS evaluated a number of opportunities from a portfolio held by TAQA Netherlands to enable a potential investor to determine an investment strategy. TRACS evaluated the remaining opportunities in the package in addition to defining the no investment position.	TAQA March 2008
Modelling Support and Commercial Advice for Val d'Agri Trend Equity Dispute	TRACS provided geologic and reservoir modelling support and commercial advice for Shell Italia in an equity dispute: the giant fractured carbonate field straddles a number of licence blocks. TRACS built an initial static model on which a first pass dynamic model was used. In parallel, a discrete fracture model was built which in turn was upscaled to a full field dual porosity dynamic model. On the back of the static and dynamic modelling efforts, TRACS also provided input into the commercial modelling strategy.	Shell 2004-2005

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Mumbai High Field and Well Modelling and Gas Lift Support	Detailed analysis of several producing fields with over 70 wells. Production of integrated model covering flowlines, pipelines, and wells with the potential to tie into reservoir models. Recommended improvements to remove bottlenecks analysed the impact of adding new platforms and wells (especially important given that they were gas constrained) and made recommendations for improved gas lift designs.	British Gas 2004
Nile Delta Deep Water Review	Reserves review of the West Delta Deep Marine acreage in the Nile Delta offshore. Conducted a geological and petrophysical review of discovered fields following a data room, leading to an assessment of gas volumetrics. Involved a knowledge of submarine fan reservoirs in which the large-scale reservoir architecture is characterised largely from seismic amplitudes, and the small-scale heterogeneity is characterised from core, FMI and CMR data, with a particular emphasis on the evaluation of thin-bedded pay.	2004
Rajasthan Discovery Reviews for Cairn Energy	Integrated studies of new fields in the Southern Barmer Basin in Rajasthan, India. Based on exploration results, the work reviewed the discovery wells and well tests, re-interpreted 2D seismic, calculated probabilistic reserves and placed a valuation on further appraisal and near-field exploration activities. The work included the writing of well proposals for exploration (1 well) and appraisal (3 wells), all of which have now been drilled.	Cairn Energy 2004
Reservoir Modelling and FDP Preparation for HNR	TRACS supported Harvest Natural Resources by building static models of the Uracoa and Bombal fields in Venezuela.	Harvest Natural Resources 2004-2005
Reservoir Modelling in Deepwater Systems	Field-based training course in the Tabernas Basin, focussing on how to build optimal reservoir models for heterogeneous submarine fan systems, particularly in a confirmed basin setting. Includes reservoir models and simulation of field-scale outcrops	Multi-client 2005
Reservoir Modelling of West African Field	Reservoir modelling support for field development planning in confined turbidites offshore Equatorial Guinea. The work involved scenario-based reservoir modelling, conditioned to seismic and limited well data. Work was conducted on the Ebano, Okume and Akom Fields, and modelling support in general offered for parallel studies on the Elon, Oveng and Ceiba Fields.	Amerada Hess Corporation 2004
Review of Exploration Acreage for Keltec	TRACS reviewed a data pack issued for a potential acquisition of a number of exploration licences in Argentina. The evaluation included a review of seismic data, well logs, well tests, and infrastructure.	Keltec 2005
Sangu Field Development Planning, Bangladesh, Cairn Energy plc	Integrated (seismic through to completions) analysis of the field including static and dynamic models, history matching, well numbers and target selection and detailed completion design and installation. The subsurface component included reprocessing 2D seismic, seismic attribute analysis, re-interpretation of logs, and new build static and dynamic models. Several Cairn Bangladeshi staff were also seconded to TRACS during the project for continuity and training / mentoring. The completions component including designing selective completions (to cope with water production), tendering of equipment and services and installation supervision. The project will further cover life of field issues such as exploration potential, compression and further wells.	Cairn Energy 2004
Technical Evaluation of the Scott and Telford Assets	TRACS evaluated a farm in opportunity of the Scott and Telford assets detailing the full life of field 1P, 2P and 3P forecasts to determine a farm in value and strategy. The TRACS evaluation included identification and quantification of development (including facility and environmental) risks and rewards for the forward development.	March 2008