

# CRAIG FINLAY

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✓ CORPORATE GOVERNANCE ✓ DUE DILIGENCE ✓ PROJECT DIRECTION ✓ PROCESS SAFETY ✓ HAZOP LEADERSHIP  
✓ COMPETENCE ASSURANCE ✓ ASSET EVALUATION ✓ CONCEPT SELECTION ✓ PETROLEUM ECONOMICS  
✓ PRODUCTION OPTIMISATION ✓ FLOW ASSURANCE

## CORPORATE GOVERNANCE

Corporate governance of oil and gas assets, producing over 200,000 barrels of oil equivalent per day, in China, Colombia, Ecuador, Malaysia, Romania, Russia, and the USA. Presented with the Schlumberger Chairman's Award for successful governance of a field reactivation project in Colombia. Calibration of 'gain-share' field management and production projects. Risking services, and cash, on field rehabilitation, in return for shared incremental revenue. At the acquisition stage, performing a critique of the potential partner. Leading technical peer reviews during conceptual definition, engineering, procurement, construction, commissioning, and operational phases.

## DUE DILIGENCE

Managed a number of due diligence studies, for banks and lenders, assessing the technical and commercial attractiveness of offshore acquisition opportunities. The projects were predominantly located in Africa.

## PROJECT DIRECTION

Directed an international due diligence study of the world's largest scale carbon capture and storage project, exceeding stakeholder expectations of quality, cost, and schedule. The study required the management of a multi-discipline, multi-cultural, team, based for the majority of the time in Germany. The collaboration of engineers across other company entities and the novel technology reviewed meant that this was an important and strategic project for Thyssenkrupp.

## PROCESS SAFETY

Developed Schlumberger's process safety and integrity management system and rolled it out to all producing assets world-wide, achieving 80% compliance within two years. My role was to define the structure of the management system, the measure of success for each key performance indicator, support implementation at the assets, lead audits, prepare remedial work plans and close them out.

## HAZOP LEADERSHIP

Directed Schlumberger's safety and loss prevention business, providing international class HAZID and HAZOP leadership services, with accountability for group profit and loss, staff recruitment, performance appraisal, and development. Negotiated a world-wide agreement, with Shell, to provide their HAZID and HAZOP leadership and training, securing revenue of over £2 million. Led a study of the Cawthorne Channel Associated Gas Gathering Project for SPDC. The project encompassed modifications and extensions to various onshore flowstations, compressor stations, gas treatment plants, and metering stations, in the Niger Delta. The overall objective was to eliminate operational flaring. The study was conducted in Abu Dhabi, and the team comprised sixteen engineers from the five interested parties namely the SPDC, NAPIMS/NNPC, Daewoo, Mott MacDonald, and the Nigerian Government. Led a series of studies of Kashagan development, potentially the largest gas field in the world.

## **COMPETENCE ASSURANCE**

Created, from scratch, Schlumberger's competence assurance system for production facilities professionals, including process engineers, mechanical engineers, rotating machinery engineers, electrical engineers, control and instrumentation engineers, pipeline engineers, civil engineers, structural engineers, subsea engineers, process safety engineers, construction engineers, operations engineers, and maintenance engineers. Assembled and chaired an advisory board, representing the different interests of all business units, and ensuring that the competence model would be accepted by the wider community. Boosted job satisfaction, and slashed attrition rates from 9% to 3%. Achieved all key performance indicator targets relating to population mentoring, diversity, promotions, flagging of high value staff, and succession planning.

## **ASSET EVALUATION**

Led the assessment of hydrocarbon resources, equipment, processes, people, and infrastructure, ensuring that investment risks were aligned with reward. This involved several steps. To search, catalogue, screen, prioritise, and assess available data. To undertake site visits in order to confirm assumptions. To calculate existing fluid gathering, handling, transfer, distribution, export, and main utility capacities and ullage. To report and present assessments, with a focus upon issues that represented a major risk, or that had a significant impact upon future production, CAPEX, or OPEX.

## **CONCEPT SELECTION**

Directed the concept selection phase of a key offshore gas condensate development in Saudi Arabia, organising and facilitating the workshops, bringing together surface and sub-surface disciplines, and delivering the concept selection report. The objective was to frame the concept identification and screening, from a high level multi-disciplined perspective. The role involved devising, preparing, organising, leading, and reporting the concept identification workshop; to manage and utilise input from senior client stakeholders, and several internal discipline advisors. This was a key, high profile, workshop, with conflicting stakeholder value drivers that had to be carefully reconciled. There were also a number of complex multi-discipline technical issues to be resolved, and strategic options to be identified and decided upon.

## **PETROLEUM ECONOMICS**

Prepared economic models in support of commercial evaluation of competing field development concepts. Primary indicators were net present value and investment rate of return. Led decision risk analysis exercises, preparing tornado diagrams and cumulative probability curves.

## **PRODUCTION OPTIMISATION**

Increased oil production, by 3%, of the Mokoko Abana field for Pecten Cameroon, receiving a letter of commendation from the client. Technical leadership in the PIPESIM multiphase flow business. Management of major consultancy projects, client training, sales support, and user support. Led the facilities and operations team on a key client field optimisation study in Algeria. The work included assessment of the impact of Barium Sulphate deposition, assessment of fluid handling capacity, assessment of water injection capacity, assessment of well switching constraints, assessment of gas lift capacity, and assessment of power capacity.

## **FLOW ASSURANCE**

Resurrected Schlumberger's Flow Assurance Special Interest Group, organised an international technical conference, and increased the membership from 100 to 400. Led Schlumberger's multiphase flow modelling business, managed major consultancy projects, trained clients, supported software sales and users. Expert in steady state multiphase flow in wells, pipelines, and networks.