

Gaffney
Cline

Experts in Australasia



GaffneyCline

GaffneyCline is a global consultancy that has been offering technical, commercial, and strategic advice to the oil and gas sector for over 55 years. GaffneyCline's reputation demonstrates that the advice delivered, together with its industry insights, is of high-quality, impartial, technically based, and commercially astute. GaffneyCline is well known as one of the leading suppliers of Reserves and Resources assessments, which are required for many purposes including statutory reporting, stock exchange listing, development planning, project finance, and asset valuation.

In addition, GaffneyCline offers a full range of upstream, midstream and downstream technical and commercial consultancy services. These range from seismic interpretation, static and dynamic reservoir modelling, field development planning, facilities and pipeline engineering, gas monetization, LNG/GTL, mergers and acquisitions, economics and project finance, unitization & redetermination, and expert witness work.

GaffneyCline operates worldwide from three main offices located in London, Houston and Singapore, and supported by offices in Buenos Aires, Sydney and Dubai.

Australasia (Australia, Papua New Guinea, New Zealand)

GaffneyCline has and continues to work for a variety of clients including some of Australia's largest ASX-listed oil and gas companies, smaller independent listed companies, private companies and legal firms. GaffneyCline also supports financial institutions including private equity, Australia's largest commercial lending banks and advisory firms. For many years GaffneyCline has supported the Australian Government by providing advisory services to a Government organization, and continues to do so in multiple areas. Every year GaffneyCline carries out Reserves and Resource audits for multiple ASX-listed company, many with assets in Australia.

GaffneyCline's Australia focused consulting projects range from Reserve / Resources assessments to techno-commercial due diligence including Red Flag assessments, valuations, CBM projects, LNG projects, infrastructure and gas projects plus expert witness. GaffneyCline has significant experience with East Coast gas and CBM experience having supported a number of clients in feasibility studies. In Papua New Guinea (PNG), GaffneyCline has completed a wide variety of projects including Reserves and Resources assessments, exploration studies and prospectivity assessments, farm-out assistance, due diligence and/or Red Flag assessments, valuations, takeover defence, Unitisation & Redetermination in addition to providing various training seminars for the PNG Government. In New Zealand, GaffneyCline's projects have been focused primarily on Reserves and Resources assessments, technical studies and expert witness work, relating to assets in the Taranaki region.

Partial summaries of selected projects that GaffneyCline has completed in Australasia are outlined on the following pages.



Australasia

Gas Reserves Estimation & Strategic Advice:

On behalf of a major purchaser of gas from a large offshore field in Australasia, GaffneyCline reviewed and audited technical work undertaken by the field operator, including reservoir simulation studies. GaffneyCline provided advice on the operator's estimated reserves and production forecasts, the viability and potential impact of additional drilling on the field, and on the strategic options with respect to a possible renegotiation of the existing Gas Sales Agreement.

Due Diligence Evaluation: GaffneyCline was commissioned by an NOC to perform technical due diligence and valuation of a company's exploration and production interests in PNG. This work included the review of Reserves and Resources, evaluation of the operator's proposed development plans, and the provision of CAPEX, OPEX and production profiles. GaffneyCline assessed upside potential, revenue streams (including LNG) and worked with the client's financial advisors to provide a valuation of each asset.

Asset Evaluation: An Australian independent company commissioned GaffneyCline to conduct an independent review of their Australian exploration and production assets. The review was conducted largely as an audit with key checks made to confirm the validity of reserves figures, production and cost forecasting information.

Reserves and Resources Assessment: An oil major engaged GaffneyCline to provide a Reserves and Resources assessment of two offshore fields located in Taranaki basin of New Zealand. The purpose of assessment is to assist the sale process of the company's interest in the two fields.

Petroleum Assets Evaluation: GaffneyCline was retained to assist with the evaluation of a number of PNG assets. GaffneyCline performed an independent technical and commercial review of the gas-initially-in-place, Reserves and Resources. GaffneyCline reviewed production profiles for the discovered fields and the proposed aggregation plan for the monetization of the natural gas and condensate. In addition, GaffneyCline provided review and comment on conceptual surface designs, operational risks

and costs associated with each of the key components of the gas and condensate production system (as well as LNG liquefaction and up-loading system and transportation).

Field Development Planning Support:

GaffneyCline was engaged to review a petrophysical study of wells in the client's New Zealand field. GaffneyCline provided independent and relevant comments on the fluid contacts, saturation modelling, permeability prediction, and made a number of recommendations and observations.

Expert Witness - Development Project

Analysis: GaffneyCline was commissioned by the Australian Government to provide an independent analysis of the relationship between two development projects. GaffneyCline reviewed geological and geophysical issues, reservoir characteristics and topsides facilities to identify similarities/differences. GaffneyCline critiqued the claimant's affidavits. GaffneyCline's evidence was acknowledged by a tribunal as being key in reaching its decision that was upheld on appeal.

LNG Project Evaluation: GaffneyCline was commissioned to assist an Asian gas company to evaluate a potential LNG project in Papua New Guinea. GaffneyCline conducted an independent review of various reports, interpretations and studies provided by the client and provided advice on Resources and well deliverability.

Australia Gas Import Feasibility and

Economics Review: On behalf of a major natural gas customer, GaffneyCline carried out a feasibility study to investigate the potential to import LNG into Australia via a dedicated smaller scale terminal or via a shared regas facility. The study encompassed review of engineering specifications, costs and resulting gas delivery economics. As part of the extension of the project, GaffneyCline provided guidance and analysis on the Global LNG markets, supply, demand, pricing and contractual structures.

Gas Sales and Purchase Agreement:

GaffneyCline was requested to undertake a review of a proposed agreement for the sale and purchase of gas from a major new multi-field development, offshore Australia, for one of the primary gas buyers.



For more information about GaffneyCline's integrated services, please contact your local GaffneyCline office.

Asia Pacific

Singapore
80 Anson Road, #31-01C
Fuji Xerox Towers
Singapore 079907
Tel:+65 6225 6951
singapore@gaffneycline.com

Australia
Level #16-04, 275 Alfred Street
North Sydney, NSW 2060
Australia
Tel:+61 2 9955 6157
sydney@gaffneycline.com

EMEA & Russia Caspian

United Kingdom
Bentley Hall, Blacknest,
Alton, Hampshire, GU34 4PU
United Kingdom
Tel:+44 1420 525366
london@gaffneycline.com

United Arab Emirates
TechnoPark Jebel Ali,
Dubai.
United Arab Emirates
Tel:+971 55 992 2918
dubai@gaffneycline.com

Americas

Houston
5555 San Felipe Street
Suite 550
Houston, TX 77056, USA
Tel:+1 713 850 9955
houston@gaffneycline.com

Argentina
Edificio Puerto León, Juana
Manso 205, piso 3, Dique 4,
Puerto Madero
C1007CBE, Buenos Aires,
Argentina
Tel:+54 11 4378 6497
buenosaires@gaffneycline.com

Terms and conditions of use: by accepting this document, the recipient agrees that the document together with all information included therein is the confidential and proprietary property of GaffneyCline and includes valuable trade secrets and/or proprietary information of GaffneyCline (collectively "information"). GaffneyCline retains all rights under copyright laws and trade secret laws of the United States of America and other countries. The recipient further agrees that the document may not be distributed, transmitted, copied or reproduced in whole or in part by any means, electronic, mechanical, or otherwise, without the express prior written consent of GaffneyCline, and may not be used directly or indirectly in any way detrimental to GaffneyCline's interest.

© 2020 GaffneyCline. All rights reserved.