

Gaffney  
Cline

Experts in Nigeria



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## GaffneyCline

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GaffneyCline is a global consultancy that has been offering technical, commercial, and strategic advice to the oil and gas sector since 1962.

GaffneyCline's reputation demonstrates that advice, along with its insight, is high-quality, impartial, technically based, and commercially astute. GaffneyCline is often referred to as one of the leading Reserves consultants within the industry, but in reality, GaffneyCline offers a much wider range of upstream, midstream and downstream technical and commercial consultancy services. These range from seismic interpretation, static and dynamic reservoir modelling, reserves reporting, Competent Person's Report (CPR) for stock market listings, field development planning, field engineering, gas monetisation, LNG/GTL, mergers and acquisitions, economics and project finance. GaffneyCline operates worldwide from three main offices in London, Houston and Singapore, and from local offices located around the world.

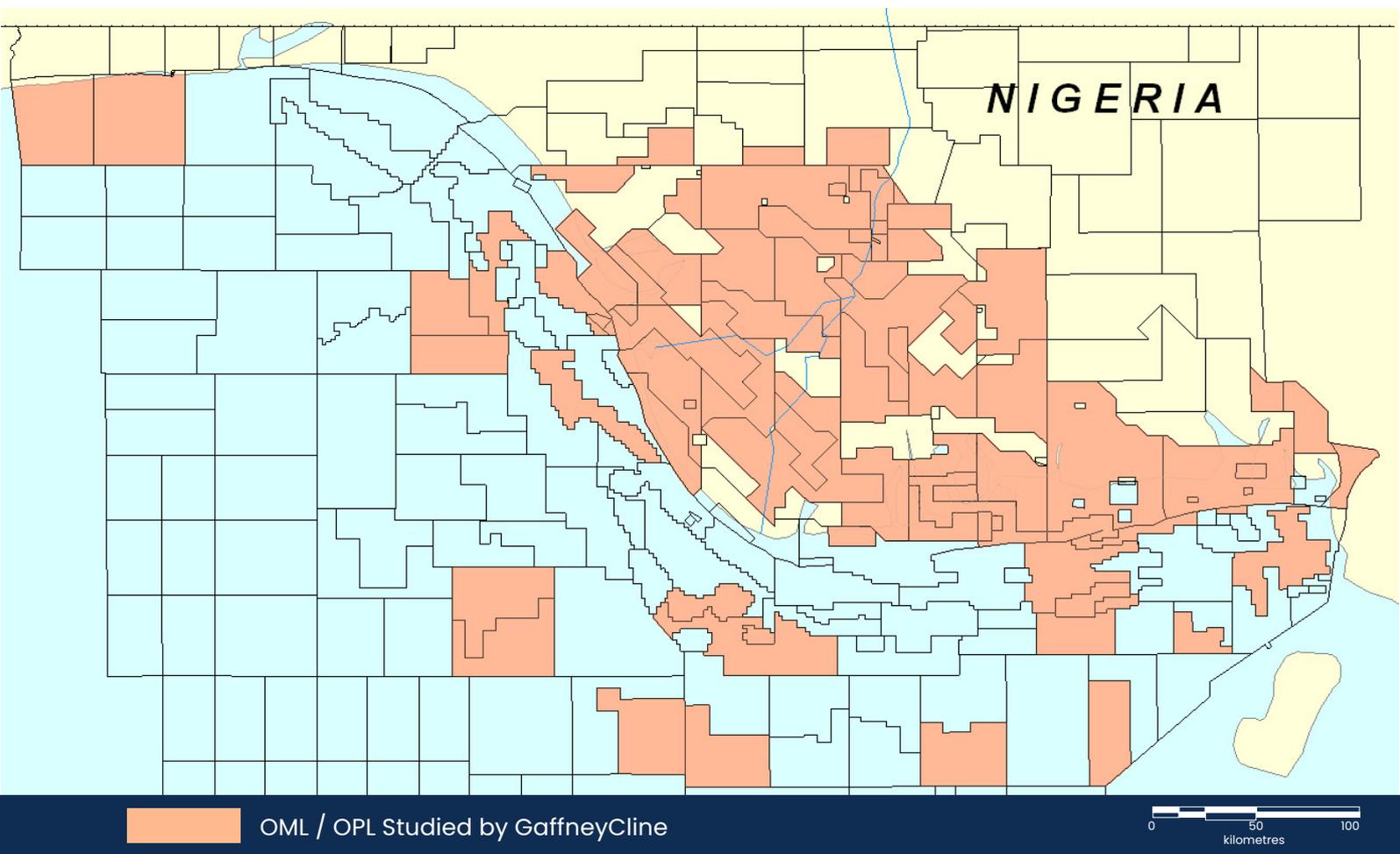
# Experts in Nigeria

Nigeria is a good example of somewhere GaffneyCline has been active recently. Over the past 9 years, 110 projects have been carried out involving about 75 clients, including 55 indigenous Independents and International Oil & Gas Companies and about 20 International and Local Banks/Syndicated Lenders and Investors. GaffneyCline has also collaborated with many more companies within the Nigerian Energy Industry. The projects covered several of the services provided by GaffneyCline (see Figure 1), including Reserves evaluations, field development plans (FDPs), mergers

and acquisitions (M&A projects), technical due diligence for financing and also Alternative Funding by NNPC JV Partners, and CPRs for stock market listings. In terms of dimensions, these projects covered some 70 licence blocks, 240 fields/discoveries and over 3,000 reservoirs throughout the Niger Delta including onshore, shallow-water and deep-water offshore blocks (see Figure 2).

The following provides brief descriptions of a few selected studies from the 110 projects carried out to date, with no reference to size or budget.

Figure 1: Summary of Blocks Studied by GaffneyCline



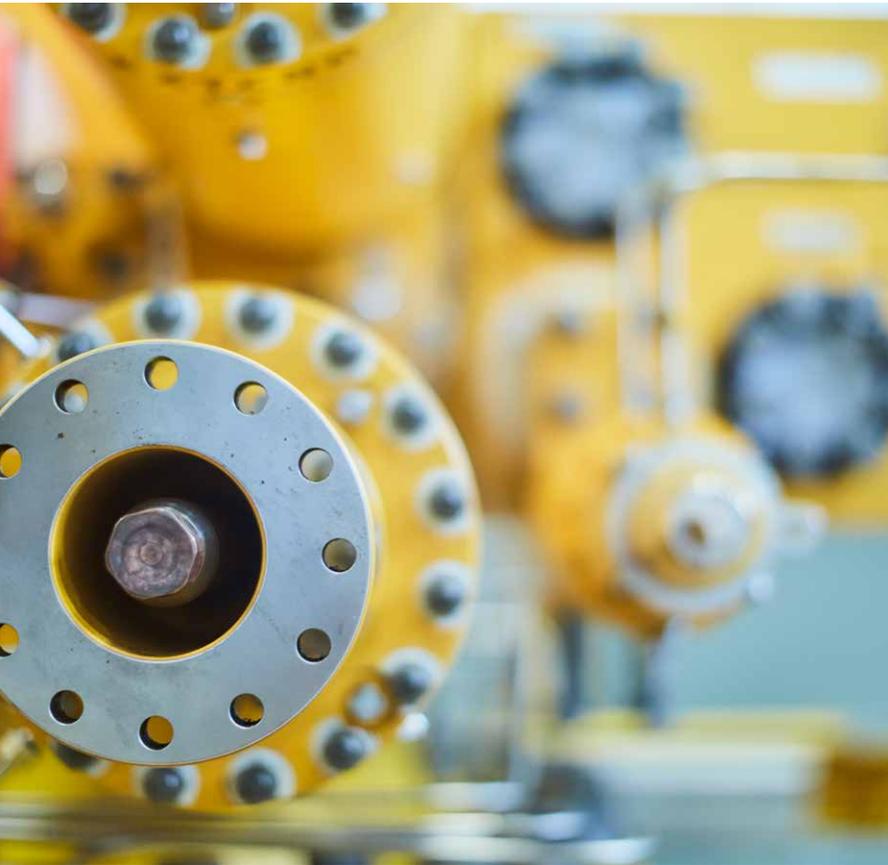
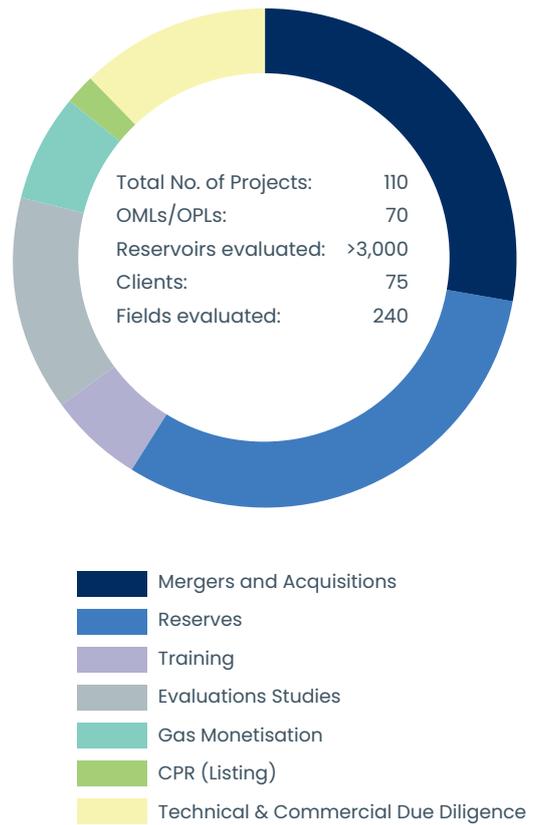


Figure 2: Summary of GCA Projects in Nigeria (2009–2018)



## Our Nigerian Studies

The following provides brief descriptions of selected studies from the 110 projects carried out to date by GaffneyCline, with no reference to size or budget.



### Reserves Estimation & Stock Exchange Listings

#### COMPETENT PERSON'S REPORT FOR STOCK EXCHANGE

GaffneyCline carried out an independent assessment of Reserves estimates and economic evaluations of a Nigerian block under consideration for acquisition by a UK-based client. GaffneyCline provided a Competent Person's Report which was included in the publication of a rights issue and listing application in accordance with the rules of the London (LSE) and Irish (ISE) Stock Exchanges.

#### COMPETENT PERSON'S REPORT FOR STOCK EXCHANGE

GaffneyCline prepared a Competent Person's Report on certain assets in Nigeria, Kenya and Gambia in which the Client held an interest, in connection with an application for admission to the Johannesburg Stock Exchange (JSE).

#### ASSESSMENT OF INTERESTS, NIGERIA

For a London-listed independent oil company, GaffneyCline prepared an assessment of its petroleum interests onshore in the Niger Delta in Nigeria. These assets comprised formerly producing oilfields.

#### INDEPENDENT RESERVES OPINION, NIGERIA

GaffneyCline was commissioned by an independent oil company to provide an opinion on its oil and gas Reserves, onshore Nigeria in accordance with SPE PRMS Guidelines.



## Technical and Commercial Due Diligence

### **TECHNICAL & COMMERCIAL DUE DILIGENCE FOR ACQUISITION**

Technical/commercial review of an offshore oil field in support of a client's competitive bid for an equity stake in the field.

### **ASSISTANCE FOR MERGERS & ACQUISITION VALUATIONS**

GaffneyCline has assisted at least a dozen different clients to date, both Nigerian and International, with acreage divestments by Shell, ConocoPhillips, Chevron, Petrobras and other Operators in Nigeria. GaffneyCline analysed the acreage and evaluated the many assets concerned including the facilities. During this process GaffneyCline provided technical support to the banks and the clients in the bidding and closing process.

### **ASSISTANCE FOR ALTERNATIVE FUNDING**

GaffneyCline has undertaken technical due diligence evaluations of the development projects of NNPC/IOC Joint Ventures, on behalf of major international and local banks and lending syndicates in support of the JV's alternative funding programmes.

### **DUE DILIGENCE REVIEW AND SUBSEQUENT FIELD SUPERVISION**

On behalf of a European bank, GaffneyCline carried out a due diligence review of a Nigerian offshore oil field development for project financing purposes. Subsequently, GaffneyCline was instructed to monitor and report on the field development and production.



## Technical Subsurface Studies

### **FIELD DEVELOPMENT STUDIES**

Many projects including seismic interpretation, static and dynamic reservoir models, field development plans and identification of further development opportunities in both onshore and offshore fields, for several clients in Nigeria.

### **ASSESSMENT OF EXPLORATION OPPORTUNITIES, OFFSHORE**

GaffneyCline assessed the exploration opportunities of a Nigerian offshore block on behalf of a client. The study was based on the geological and geophysical data and exploration well test results. GaffneyCline also carried out an economic evaluation of the potential recoverable oil and gas volumes, for the success case.

### **FIELD DEVELOPMENT REVIEW OF OFFSHORE DISCOVERY**

GaffneyCline carried out a subsurface evaluation of a recent offshore oil discovery, including seismic re-interpretation, volumetrics, notional field development plan and economic evaluation.

### **REVIEW OF EXPLORATION LICENCES**

GaffneyCline conducted a review of two exploration licences, deep water Nigeria, on behalf of an Asian oil and gas company. The limited time available necessitated a very rapid review and data was also limited. However, GaffneyCline was able to provide an initial opinion on the assets.



## Facilities Audits

### **NIGERIA ONSHORE FACILITIES AUDIT**

GaffneyCline undertook an on-site facilities review of an OML with multiple fields, onshore Niger Delta, as a requirement for a Reserves Based Lending application by a client. The London bank required an audit of all facilities to verify the nature and state of the equipment and whether it was fit for purpose.

### **NIGERIA OFFSHORE FPSO & FACILITIES AUDIT**

GaffneyCline carried out a facilities audit of an FPSO operating in the shallow offshore, Nigeria, on behalf of a trader. GaffneyCline staff inspected the vessel to verify if it was fit for purpose.



## Gas Advisory

### **ONSHORE GAS ADVISORY FOR FERTILIZER PLANTS**

GaffneyCline evaluated the adequacy of the gas supply and Reserves from the gas supplier, which was targeted for use as the feedstock for two different new fertilizer plants. The reports were required by the clients as part of the process to secure project financing.

### **ONSHORE GAS ADVISORY FOR POWER PLANT**

GaffneyCline evaluated the adequacy of the gas supply and Reserves from the gas supplier, which was targeted for use as the feedstock for an integrated power plant. The report was required by the client to provide assurance to the banks for the project loan.





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

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