

Experience Specialist technical experience in construction grouting techniques for the installation and repair of fixed offshore platforms and pipelines with extensive experience and knowledge in the use of cementitious grouts for piled foundations and structural connections. This work often required attendance at offshore sites and locations included Alaska, Gulf of Mexico, North Sea, UAE and China and given the individuality of each project, the work often required unique and innovative solutions to difficult problems; in this respect regarded by many people in the industry as an expert in this field.

Held management positions in the offshore industry since 1985. Broad experience in many aspects of offshore projects encompassing engineering, construction, installation, repair and maintenance of fixed offshore platforms, subsea templates and pipelines, which include: -

- Project management
- Operations management and logistics
- Project cost control & commercial management
- Management and supervision of engineering personnel
- Offshore construction planning
- Design of structural grouted connections for pile sleeves; also remedial works, repair schemes, etc.
- Design of grouted free-span correction, stabilisation and repair schemes for pipelines
- Preparation of method statements and procedures for grouting operations
- Design of structural installation methods

Some notable engineering achievements include:

- Technical development of remote (ROV) grouting to techniques to +1,000m w.d.
- Detailed design of dropped object protection structures, and the stabilisation of subsea templates and pipelines
- Design and development of grouted repair to buckle at ExxonMobil's Skene bundle
- Sodium Silicate grouting of tunnel crossings beneath the Kura River (Azerbaijan)
- Engineering development of underbase grouting solution to stabilise a concrete gravity base structure offshore Sakhalin Island

Background A Chartered Civil Engineer with almost 30-years experience in the oil & gas industry, recently established Miles Offshore Services Limited providing specialist consultancy and structural grouting services. Prior to this was employed by FoundOcean/SeaMark Systems Limited (formerly the Offshore Division of Wimpey Laboratories) for more than 25-years, joining Wimpey Labs as Senior Civil Engineer in 1981, and acquired by SeaMark Systems in 1993. A shareholder in the management buyout of SeaMark Systems in 1995 (re-branded FoundOcean in 2006) was a Board Director in the Company for more than 10-years. Reporting to the MD and with profit responsibility for the offshore grouting business, undertook a wide range of responsibilities including client liaison, business acquisition, tendering and contract negotiation, engineering & project management, planning & operations for the assignment of resources and assets, implementation of Company's QHSE systems, and overall supervision of projects to ensure required standards were achieved.

2007 – date Miles Offshore Services Limited – Independent Consultant

Providing specialist consultancy and technical expertise to the oil & gas and renewable energy industries, specifically related to construction, structural integrity management, repair and strengthening applications. Projects encompass conceptual studies, project management and the provision of specialist personnel for offshore construction and grouting operations. Clients and projects included:

- ULO Systems LLC - Providing technical and commercial advice for the provision of grouting services, including development of financial models, preparation and presentation of tender documents, Project Manager & Company Representative. Projects included:
 - Thanet Offshore Wind Farm Substation Platform - Seaway Heavy Lifting BV
 - Alpha Ventus Wind Farm, NorWind/DOTI GMBH & Co. KG - grouting of six turbine towers
 - DONG Energy Nini East Platform – Heerema Marine Contractors BV (HMC)
 - E.On Rhurgas ‘Babbage’ Platform, UK Sector Block 48/2 – HMC
 - ABB AB, Nord E.On 1 HVDC Wind Farm Converter Station Platform - HMC
 - McDermott (Caspian) Lukoil Nizhnevolskneft Yuri Korchagin Field LSP-1 Platform and SPM Structure
 - CNR International Olowi Field, Gabon Wellhead Towers ‘A’, ‘B’, & ‘D’ - Saipem
 - ONGC, MNW Development, MF-Tripod, Global Industries
 - Heerema Marine Contractors, EOG Resources ‘Toucan’ & BP Trinidad & Tobago ‘Savonette’ Platforms
 - ONGC Heera Development, remedial grouting works to piling at ‘HJ’ and ‘HI’ Platforms
 - Aramco/McDermott LTA; installations in Zulf, Karan, Marah & Marjan Fields
 - Structural strengthening at Al Khafji NR11 Platform
 - Saipem Eni Congo, Awa Paloukou, Ikalou & Ikalou Sud
- Shell Expro BV - Technical assessment of repair scheme to Far East gas pipeline. Responsible for developing concept for the grout stabilisation of rock berm to mitigate scour and turbidity current effects by use of tracked ROV.
- Shell Expro/Atkins Oil & Gas - Technical assessment of caisson repair scheme with recommendations for remedial operations to strengthening clamps using high performance and ultra high performance grouts.
- Large Diameter Drilling (LDD) - Provision of specialist personnel, in support of offshore drilling & grouting operations at Vaalco’s Ebouri Platform, Gabon.

1987 to 2006 FoundOcean Ltd (formerly SeaMark Systems Ltd)

Operations Director responsible for providing specialist products and pile grouting services to the oil and gas industry, including foundations engineering, the design of subsea protection and stabilisation schemes and structural strengthening, inspection, repair and maintenance works. Extensive experience in piled foundations and grouted connections together with IRM works for steel and concrete structures including detailed design, preparation of construction procedures and planning associated with the installation of permanent and temporary structures, co-ordination of personnel and equipment. Subsea experience includes the design of reinforced concrete and grout filled protection structures for the stabilisation and protection of templates and pipelines, utilising both diver and ROV techniques

Where-as almost 500 individual platform pile grouting, pipeline stabilisation and structural strengthening projects were successfully performed during the period, notable achievements included:

- ExxonMobil - Thebaud platform, jacket strengthening by filling main piles/legs using pressure grouting techniques
- BP - Valhall WIP development of procedures and offshore operations for grouting of piggy-back piles using Densit Ducorit high performance cement grouts
- Statoil – Kvitebjorn, development of procedures, including full scale trials, for the use of Densit Ducorit materials for leg infill grouting
- Veba Oil – Hanze F2A, material selection and engineering procedures for the onshore ballasting of tank substructure using 33,000 tonnes high density concrete ‘orecrete’; subsequently offshore underbase grouting using sodium silicate cement grouts

- Kvaerner Oil & Gas – Siri, materials selection and development of procedures using sodium silicate cement grouts for underbase grouting & for impact protection of tank roof
- Amerada Hess – Garden Banks Blk 260, material selection and grouting techniques for compliant tower in 500m w.d.
- Puerto Rico Dev. Council – Ponce ocean outfalls, design of fabric formworks, grout system and procedures for placement using ADS
- Alcatel – Haenam to Chesu power interconnection, impact protection. Development of equipment, material selection and procedures for the continuous production of fibre reinforced grout, pumping into 2 x 40Km long fabric mattresses
- Statoil - Sleipner SLT, material selection, development trials and preparation of procedures for grouting of foundation ‘buckets’ using sodium silicate cement grouts
- Phillips Petroleum Norge - Ekofisk complex, strengthening of tubulars and nodes using Densit Ducorit high performance grout for the deck elevation project
- Shell Expro, development of procedures, including trials, for the sealing and plugging of ducts, pipe penetrations, etc. at Brent A, Cormorant A and other locations, using hot-tap grouting techniques
- EPA/MMS, USA: Environmental clean-up of spilt materials using grouts for the subsea encapsulation of the hazardous waste product prior to recovery by ROV
- Exxon SYU – Harmony & Heritage, responsible for technical development of procedures for ROV deployment and grouting of fabric formwork grout bags - an industry first; from underwater trials at Texas A&M University through to successful offshore application. These works also required specialised light-weight grouts due to the soft sea beds
- Petrobras – Marlim, enhancement of ROV techniques for deployment and grouting of pipeline stabilisation fabric formwork grout bags to +1,000m w.d.
- Conoco – Green Canyon 184, material selection and procedures for ROV pile grouting of foundation templates at 550m w.d. Subsequently implemented for pile grouting at Shell Oil’s ‘Bullwinkle’ and BP’s ‘Pompano’ platforms; w.d.’s circa 400m.

1985 - 1987 George Wimpey Inc. Houston, USA

Project Manager responsible for establishing an operations office and the expansion of Company’s specialist grouting services in the USA, achieving a substantial turnover growth over an 18-month period. Developed Company capability and market presence, liaised with clients, prepared tenders and negotiated terms and conditions for projects. Responsible for overall supervision of projects to ensure required standards were achieved, within budget and schedule, together with implementation of Company’s QHSE systems. Notable achievements included:

- Technical development and promotion of ROV subsea pile grouting techniques; First utilised by Mobil Oil for the grouting of the Green Canyon Block 18 platform.
- Seconded to Marathon Oil, Anchorage, as Foundations Engineer for the installation and grouting of the Steelhead Platform in the Cook Inlet, Alaska.
- Pile grouting projects at Chevron’s Hermosa, Gail & Hidalgo platforms and Texaco’s Harvest platform.

1984 - 1985 Heerema Engineering Services (UK) Limited

Structural Engineer responsible for all structural aspects for the load out and installation of platforms, modules and templates, encompassing detailed design of transportation sea fastenings, including site inspection prior to load out; analysis of lift frames, rigging systems and lifting attachments; subsea surveys and positioning systems for jackets and templates; spool piece installations; offshore supervision; preparation of manuals providing detailed procedures for all installation aspects for jackets, topsides and templates.

1983 - 1984 Wimpey Laboratories Limited

Senior Civil Engineer, Offshore Grouting Division. Responsibilities included client liaison; project engineering; implementation and monitoring of Company’s quality assurance & safety procedures; supervision and co-ordination of all offshore project activities together with monitoring of competitor activity to maintain market viability. Responsible for the overall supervision of almost 30-pile grouting projects to ensure required standards were met.

1982 - 1983 Wimpey Offshore Engineers and Constructors

Civil/Structural Engineer assigned to the design and construction of a substantial grouted subsea repair scheme to strengthen framing on the Elf A/N DP2 Platform. Responsible for detailed design of stress grouted clamps; preparation of contract documents, drawings & specifications; negotiated subcontract terms/conditions; co-ordination of engineering & fabrication activities; preparation of installation/grouting procedures; offshore supervision of subcontractors during installation of the repair scheme.

1982 Heerema Engineering Services (UK) Limited

Seconded to Heerema's London Office to develop the installation and grouting procedures for the Conoco Hutton Tension Leg Platform, the industry's first TLP. Responsible for producing the installation manual defining all diving and grouting procedures necessary for the placement of the four foundation templates.

1981 - 1982 Wimpey Laboratories Limited

Project Engineer assigned to various offshore construction projects including pile grouting, cement logging, radioactive grout density monitoring and structural repair & maintenance contracts. Responsible for the preparation of procedures, offshore supervision and client liaison and ensuring that the work was undertaken in accordance with the required standards. Notable achievements included:

- BP Magnus installation: Assisted in developing contingency grouting scheme at offshore site following significant failures to jacket grout piping.
- Conoco Hutton TLP project: Assisted with the technical development and successful introduction of a computer-operated acoustic cement logging system for the template pile grouting.

1977 - 1981 George Wimpey & Co. Limited

Company Indentured Engineer training under an Institution of Civil Engineers Registered Agreement and undertaking a sandwich course, attending The City University, London, from 1977 to 1981. Construction experience gained in the administration and supervision of various contracts, which included: -

1980 - 1981 Site and Planning Engineer at Highlands Fabricators Limited, Nigg Bay constructing the BP Magnus platform, working for both the Dimensional Control and Planning Departments.

1979 - 1980 Assistant Engineer working for the Geotechnical Division, Wimpey Laboratories, Scotland. Responsible for land stabilisation and remediation contracts using infill consolidation grouting techniques, and also for bridge refurbishment contracts. Offshore Engineer, supervising pile grouting at Conoco's Murchison Platform and subsequently at Gorm 'B' Platform, North Sea.

1978 - 1979 Assistant Engineer, working on various housing projects for the Planning and Design Department of Wimpey Homes, Bristol Region.

1977 - 1978 Measurement Engineer on an open cast coal site, for Wimpey, Newcastle.