

CURRICULUM VITAE:

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For the OIL & Gas Engineering Industry**

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INTRODUCTION

I have been involved in offshore sub sea construction, inspection and worked on various civil engineering projects since 1974. After a varied diving career from Taylor diving diver/tender, I worked as mixed gas and saturation diver for Comex diving, Oceaneering and for 10 years with Solus Ocean Systems. I have worked as Bell diving supervisor and superintendent in various water depths in various parts of the world.

For the last 22 years I have worked as client Representative, diving consultant, and construction manager on various contracts for major oil/gas and civil engineering companies worldwide.

Overview of last projects: Acting as Senior Client Worksite Representative

- 2008 (Castor development project) develop SIMOPS/Combined & marine operations manual
- 2008 (*Pipeline repair*) (Rasgas development) procedures for Pipeline repair manual.
- 2007 BP Installation of riser and spool at Unity platform
- 2007 (*Pipeline repair*)BP Installation for pipeline repair grouted sleeve on CATS 36inch pipeline
- 2006-7. Petro SA Development of South Coast Gas project installation of 8, 12, 14 inch pipelines. (South Africa). (Allseas Lorelay)
- 2006. BP Development Foinhaven and Schehallion field west of Shetland 8 & 10" pipeline installation(Skandi Navica)
- 2005-6. BP Rhum project North sea pipeline trenching and umbilical trenching installation (Normand Pioneer)
- 2004. (*Pipeline repair*) Southern water pipeline repair 8" flexible Solent Isle of white.
- 2002-3. Interconnector 2 Irish seas and Isle of Man 30 & 10" pipeline installation (Allseas Solitaire, Togmor) above water tie-in and above water (*Pipeline repair*) conduit repair.
- 2001. SAIBOS Construction Girassol project Angola spool installation (Seaway Kestrel)

I have been involved with all aspects of on and offshore work both for safety, contractual and construction including the following activities:

Pipe lay (Rigid, flexible and spooled pipe) – Control umbilical installation and repair - rock dumping – FTA, PLEM and spool installations – Hyper-baric welding – Trenching/ploughing both pipelines and umbilical - Pipeline repair (Rigid and flexible repairs)– FGT pipelines – Pigging cleaning pipelines - Sub sea completions - Wellhead abandonment - Pipeline shore pulls - Outfalls - Inlets - IRM - civil engineering projects - pile removal and repair - seawater intake construction - fish acoustic deterrent system installation. Diagnostics investigations on hydraulic, chemical valves and jumpers with isolations and barrier testing control.

I have also been involved and written manuals and procedures on wellhead maintenance, repair and deep water pipeline repair techniques using remote diving techniques and Hydrate removal procedures using hot tap methods. I worked for various companies and reviewed contracts working procedures and completed all levels of risk assessments.

Various work capacities both on and offshore. Audits assessments on diving and marine operations from D.P DSV and anchor type vessels. Carried out vessel assurance on behalf of client and subsequent mobilisations.

I have been involved as a diver, supervisor and client with all aspects of sub sea wellheads from installation, work over, repair, and commissioning, working with FMC, FSSL, Reagan, Cameron, and Kongsburg.

Summary of Qualifications

- 1970 Management Studies City & Guilds Gt. Yarmouth College.
- 1974 Northern Divers School of diving D.O.E. Commercial oilfield diving course.
Air diving – Standard dress - KMB - SCUBA - Burning Techniques – Construction.
- 1976 Comex Diving Ltd Mix - gas course - Oxy-arc cutting course
Rigging course including spool and hydro couples.
- 1977 Magna Flux Ltd Ultrasonic techniques and MPI course.
- 1979 Norwegian Bell Divers certificate No 254.1981 AODC Divers certificate of competence No 1754
- 1985 A.N.S.T. Critical wall thickness/laminations grade 1
- 1985 Orca Ltd Client Representative Course and computerised Inspection techniques.
- 1996 DSV.DP. Dynamic Positioning Familiarisation Course. (LNC)
- 1996 ARCO British Ltd. FMC Actuators & Gate Valves Training Course (FMC Aberdeen).
- 1996 Hydraulic Pressure Testing Course (C&M Hydraulics Ltd).
- 1996 ARCO British Ltd. Accident/Incident Investigation
- 1998 Shell UK PTW and offshore safety course.
- 2005 Advanced safety auditing course (ASA) Aberdeen
- 2006 BP Advanced safety Leadership course 2 days (ASL) Aberdeen
- 2006 DP Familiarisation course at Aberdeen College 2 days
- 2006 BP Vessel assurance seminar 1-day Aberdeen
- 2006 BP Incident and investigation course 2 days Aberdeen
- 2006 ACERGY Working at Height course 1-day Aberdeen
- 2006 Evolve Risk Assessor course 1-day Aberdeen
- 2006 BP/Sparrows LOLER representative familiarisation course 1-day Aberdeen
- 2006 BP PTW Level 1 (PA) integrated safe system of work (ISSOW).
- 2006 Level 1 Rope assess familiarisation (Magnus/Technip)
- 2007 Petrosa permits to work system for performing authority
- 2007 July 07 Offshore Medical Aberdeen
- 2008 Advanced safety Leadership (ASL+ASA) Refresher course 2 days Aberdeen
- 2008 April PETANS Offshore survival refresher course.
- 2008 BP PTW Level 2 (AO) integrated safe system of work (ISSOW).

Summary of work experience 1993-2008

Client Representative/Sub-sea construction

2008 J P Kenny Ltd (London) Subsea construction Consultant offices based create (Castor development project) SIMOPS & Combined operations manual with marine/diving and vessel construction procedures.

2007-2008 J P Kenny Ltd (London) Subsea construction Consultant offices based create (**Pipeline repair**) (Rasgas development) procedures for Pipeline repair manual. Identify contractors, tools and equipment for presentation, Re-view diving –technical abilities for sub sea construction pipeline repair techniques including hyperbaric welding, repair clamps/sleeves, flange/pipe to pipe connectors and above water tie-ins. Review ROV/Diving equipment for repair techniques – establish marine diving audits and emergency contacts.

2007 BP UK Snr Client Representative onboard DSV Pelican installation of tie-in spool at unity platform and protection mattresses. Monitor activities at Venture Kittiwake platform for 6inch W/I and oil pipeline removal and tie-in of 10inch Unity pipeline to PLET.

2007 BP UK Snr Client Representative onboard CSO Alliance. (**Pipeline repair**) Installation of grouted repair sleeve on 36inch CATS main trunk pipeline to Teesside terminal. Complete vessel assurance, review procedures and correspond with BP terminal for isolations and PTW.

2007 BP UK Snr Client Representative onboard Toisa Polaris, Installation of riser clamps and 4 sections of riser, install 6 tie-in spools at BP unity Platform. Install gearbox on SSIV and lock open for depressurisation operations on CATS pipeline

2007 BP UK Snr Client Representative onboard CSO Orelia for Phase 2 campaign on Machar intelligent pigging program, gas sampling, diagnostics for blockage on chemical injection lines. RHUM/SCM manifold & tree change out, Bruce WAD scale blockage clearing and Farragon hydraulic diagnostics and leak repair.

2007 BP UK Snr Client Representative onboard Subsea Viking for west of Shetland field, Pigging and testing infield pipelines using ROV PLRs installation.

2006-2007 Petrosa Snr Client Representative onboard pipelay barge Lorelay. Based in south Africa for review of procedures, and offshore for installation and of the south coast gas development project, installation of 8" 12" and 14" gas pipelines carried with 3" piggy bag. Installation of 2x corrosion monitoring joints, 3x inline tees and 1x lay through spool from 8" to 12" pipeline.

2006 BP UK Snr Client Representative onboard Skandi Navica for West of Shetlands Installation of infield 8 x 10inch pipelines production and water, (**Pipeline repair**) recovery and repair of 10inch water injection line. Installation of FTAs on all pipelines

2006 BP UK Snr Client Representative onboard Subsea Viking for west of Shetland field maintenance programme. Installation of manifolds and remedial valve replacement.

2006 BP UK diving Sub sea construction coordinator onboard BP Magnus for Magnus expansion program (MEP). Coordinate vessel activities and performing authority for working control certificate. Liaise with platform management and DSV for construction and isolations for installation of conductor guide frame and clamps. Coordination for topside construction using rope access personnel

2005-2006 Perenco Snr Client Representative. Review marine and diving procedures for IRM also review and correlate method procedures for intervention on NW Bell wellhead for work over. Offshore supervision for programmed work.

2005 BP UK Client technical Representative onboard DSV Orelia for Rhum project installation of spools and umbilical tie-in.

2005 BP UK Snr Client Representative onboard Skandi Navica for West of Shetlands Installation of infield 2 x 10inch pipelines production and water injection carried with FTAs. Vessel assurance and Lifting gear check & alignment with LOLER and PUWER Regs.

2005 BP UK Snr Client Representative Rhum Project onboard Normand Pioneer for MPP Ploughing and back filling infield pipelines. Installation and trenching of infield and main control umbilicals. Vessel assurance and Lifting gear check & alignment with LOLER and PUWER Regulations.

2005 BP UK Client Representative Wellhead abandonment programme onboard Sewell DSV for CAT 1 & 2 wells.

2004-2005 J.P Kenny Ltd (London). Sadra Dive/Construction Consultant for Sadra south Pars gas field development IRAN. Re-viewing diving –technical abilities for subsea construction programme.

2003-2004 J.P Kenny Ltd (London). Southern Water (Pipeline repair) Project Construction manager for rectification of 10inch flexible pipeline across the Solent. Based in London office to produce procedures and working on all offshore activities from survey, investigation repair and final commissioning. Complete all HIRAS reports within companies and HSE procedures

2003 - Centrica rough storage facility. Snr Client Representative. Annual IRM and riser clamp installation (DSV Aquamarine)

2003- Shell Expro UK Ltd – Dive/Construction Representative. Gas lift spool installation, wellhead intervention for insertion of DHSV using straddle valve, Chemical flushing downhole, wellhead isolation. Recovery of xmas trees and replacement. Trenching Golden Eye project.
Vessels: (DSV Aquamarine)(DSV Well ops Seawell) (Dredge barge Manta)

2002-2003 – J.P Kenny Ltd (London)/Bord Gais Ireland – Snr Client Representative for installation of Interconnector 2 project. Installation of 30 & 10 inch pipelines and tie-ins.
Vessels: (Solitaire)(Togmor)(Seaspider)

2002 – Exxon/Mobil - Client Representative Office based updating wellhead and platform inspection and maintenance manuals.

2001 – Exxon/Mobil - Client Representative Wellhead intervention for hydraulic leak on DHSV. Investigation and isolations for rectification. (DSV Aquamarine)

2001- SAIBOS Construction SNR Client Representative on Seaway Kestrel for installation of gooseneck spools and doghouse protection covers on three riser towers on Girassol project for ELF exploration Ltd Angola. Oversee construction and contractual obligations for the contract. (DSV Kestrel)

2001 – Calenergy Ltd - Client Representative
Annual IRM, Chemical injection valve and hydraulic compensator replacement. Wellhead isolations and valve operations. (DSV Aquamarine)

2001 - BP-Arco - Client Representative
Annual IRM, Pipeline remedial, wellhead hydraulic leak investigation, chemical jumpers hose change out, Choke insert removal and replacement. Wellhead isolations and valve operations.
Office based working on wellhead and platform inspection and maintenance manuals.
Annual acoustic pipeline survey.
Audit / Inventory for Sub sea wellhead equipment. Certification on all sub sea hoses and lifting equipment.
Procurement of fittings and tools for wellhead maintenance. Establish Inventory records for management system of all Sub sea equipment.

2000 - Bechtel Ltd - Supervise/Diving Consultant GT. Yarmouth power project
Declutched pile repair - Seawater intake construction - Sheet pile removal for inlet - Pipe spool installation - Anode installation - produce daily activity log and produce method and approve procedures - oversee safety and onshore diving regulations working with local port authority.

2000 - Arco British Ltd - Client Representative - Annual ROV / Diving I.R.M. programme working in office writing procedures and maintenance on sub sea container. Control pod removal and installation, annulus pressure transmitter change out.

(Pipeline repair)Pipeline span rectification on infield and export pipelines

1999- Arco British Ltd - Client Representative - Annual ROV / Diving I.R.M. programme
Wellhead abandonment programme - Various maintenance tasks for repair of wellheads.

1999 - Conoco UK - Client Representative
Sub sea wellhead production choke change out on NW bell wellhead.

1998 - J.P. Kenny Ltd (London). (Pipeline repair)— Diving consultant for deep-water repair procedures. Produce Emergency procedure Manual for: Leak Response - Hydrate response and rectification - Pipeline repair Diver and Remote range - ROV/Diving equipment for repair techniques - Emergency contact - Commissioning - Emergency pipe lay recovery for Diver/ROV intervention.

1998 - Amerada Hess - SNR Client Representative
(Pipeline repair) Flushing pigging and cleaning operations on Hudson 10" & 8" pipelines into manifold from Shell Tern Alpha - monitoring diving operations for valve isolations.

1997 - Britannia Development - Alliance Marine Representative Based in London office for procedures and working on all offshore activities for Pipeline division. Onboard Castoro 6 during 14" & 28" lay (240klms).
Responsible to all members of the Alliance (**Conoco, Chevron, EMC & J.P.Kenny**) for all aspects of offshore activities including care and co-ordination of 3rd party operations and assets. Operations included procedure writing, HAZIP & HAZOPS, anchor positioning, Pipe pull & lay, trenching, umbilical installation, spool piece tie-ins, rock dumping and as built reports.

1996 - Arco British Ltd - SNR Client Representative
Trent & Tyne development, over seeing activities on pipe lay vessel Lorelay. Pipe burial on Allseas Trenchsetter and onboard the Seaway Harrier for Hyperbaric tee installations, metrology and spool piece installations. Also on drilling rig Rowan Halifax for wellhead commissioning.

1995-1996 - Arco British Ltd - Conoco UK - SNR Client Representative (combined operations) onboard Rockwater 1 & Semi 1 Overseeing all aspects of the Gawain, Jupiter developments. Co-ordination and control of all vessels within project including pipe lay on Castoro 6, trenching, riser installation, umbilical installation, spool and wellhead installation, pigging & testing, and wellhead commissioning.

1993-1994 - Arco China Inc SNR Client Representative On L.B. Semac 1 for development of Yacheng - China sub sea pipeline and construction activities in the South China Sea.
Pipe lay from Hong Kong to Hannah Island 708KLM 28" and 16" into Island and pipe-pull from beach.

Previous work history has been omitted for the sake of brevity but can be supplied.