

# Peter Aird. CEng.

## **Oilfield Competencies gained from 1980 - 2007**

### **Drilling & well engineering consultant:**

26yrs provision of drilling engineering, supervisory & worldwide training services

### **Special projects:**

**Deepwater exploration and development;** Bay of Bengal, Arabian Sea, (India), Faeroes and United Kingdom (North Atlantic, White-Zone, Foinaven and Scheihallion developments), West of Britain, (Shetlands), Norway (Norwegian, Barents, Seas, SE Asia (Indonesia, Malaysia) , West Africa (Namibia).

**Remote Exploration;** West of Shetlands, North Sea, North Falklands Basin (Consortium), Grand banks, (Canada), UK, Black Sea (Bulgaria/Romania), Vietnam, Norway (Consortium).

**Technical limit drilling;** Kerr McGee UK, Maersk Oil UK, BP Norge, BP UK, Saga Petroleum, Norske Shell.

**Horizontal, subsea field development;** Foinaven, Scheihallion, Lyell, NW Guillemot, Pierce, Fife, Janice, Gryphon, Dumbarton, Bruce, Affleck, fields.

**HPHT (Onshore/Offshore) Exploration;** UK, Norway, Romania, Indonesia.

**Extended reach drilling;** Offshore United Kingdom; (*Bruce, Miller, Magnus, Clyde, East Brae*); Offshore Norway, Malaysia, Brunei.

**Under-balanced drilling;** On-shore Brunei.

**Platform drilling work-over, completions, re-completions and abandonment.** UK, Norway, Brunei, Malaysia, Indonesia SE Asia, Holland.

**Deepwater/HPHT Training;** Courses developed and delivered to ; *Statoil, Pemex, Petronas, PDVSA, Petro-Vietnam, ONGC, Petro Canada, Pan Canadian, Ocean Energy, Schlumberger, Smedvig, Repsol, Occidente Cupit, Sonangol, CNOOC* and other operator's.

### **Onshore engineering and Rig-site supervision.**

**Engineering & Supervisory services provided worldwide;** e.g. Light & Heavy Land Rigs, Jack ups, Platforms, Semi-submersibles, Drillships, (*moored & dynamically positioned*) installations.

**Projects worked on;** Exploration, Appraisal, Development, Deep & Ultra deep water, HPHT, extended reach, horizontal, subsea drilling programs. Well completion, re-completion and abandonment both on land, platforms and subsea.

### **Other drilling positions.**

Executed well and operations engineering 'office' based and rig-site supervisory positions ranging from Drilling Supt, Team Leader, SDE, with more than 25yrs offshore rig-site experience. Excellent PC reporting/engineering software skills gained windows based systems used e.g. DEAP, DFW, DIMS etc.

## **Personal details & Qualifications**

<b>Chartered Engineer (CEng),</b>	Engineering Council (UK)	Jan 2004
<b>MSc drilling engineering</b>	Robert Gordon University;	1998 – 2003
<b>Shell Round 1 &amp; II examinations.</b>	Shell International;	1982 & 1985
<b>2<sup>nd</sup> Eng Certificate, Chief Eng Part A.</b>	Edinburgh Nautical College	1979
<b>HND Mechanical (Marine) Engineering</b>	Glasgow College of technology	1973-1976
Member of Institute of Marine engineers science and technology.		1996
Member of Society of Petroleum Engineers.		1991
IWCF combined drilling supervisor certificate		Sept 2007
<b>Survival and medical certificates</b>		Valid

**Status:** Married. **Age;** 50 years old.

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## Current Position

**2007. HPHT Team leader, Maersk Oil North Sea, UK, Ltd**

**2005-2007 Senior Drilling/Engineering Specialist; Maersk Oil, North Sea, UK, Ltd**

Working in integrated project based multi-disciplinary teams. Responsible for planning, well engineering and operational support of North Sea Exploration, and horizontal subsea development wells.

**Note:** Rushmore benchmarked as No 1 operator in wells drilled throughout 2005 & 2006.

## Consultancy Experience

**2004 Onshore well engineering, & Rig-site Supervision;**

Joint operating business group (Petramina/MedcoEnergi) on strategic HPHT and challenging onshore land drilling projects, Indonesia. *E.g. HPHT/H<sub>2</sub>S Exploration and New projects development wells.*

**2003-2004; Deepwater Drilling and Well engineering Advisor to ONGC.**

Exploration 'drillship' campaign. ONGC, Bay of Bengal, & Arabian Sea working a 28/28 field rotation. Advising operator in venture deepwater well planning, construction, design and drilling operations.

**2003; Drilling Supervisor (Petro-Canada).** Subsea well intervention, horizontal abandonment, re-drill, completion and development. Semi submersible, Central North Sea, NW Guillemot.

**2002-2003; Deepwater Drilling Superintendent (TOTAL, Indonesia).** Exploration campaign, (2100m water depth), Indonesia, using Surface BOP stack, Sedco 601, & pre-lay mooring. Ran 'Cameron's' first ever subsea safety device for surface stack drilling.

**2000-2002; Onshore wells team leader / Offshore Drilling supervisor (BP, Norway-Uk-Faeroes);** Project planning, well program, engineering and supervision of exploration strategic Ultra-deepwater wells with a 5<sup>th</sup> Generation drillship. Wells delivered on time and budget.

**1999; Drilling engineer and Drilling supervisor (Lundin, Malaysia)** small team working with drilling manager from well start up, through tendering, contract aspects to well execution. *Then supervising a tie back retrieval, drilling & completing an offshore well operation with a dual completion from a light weight structure using a Jack up rig cantilevered over a small platform.*

**1999; Drilling Supervisor (Norske Shell)** Accountable for 'technical limit' delivery of two semi-submersible exploration wells, Norwegian Sea. Second well recorded and quickest (9 ½" days) and cheapest offshore well from a semi-submersible every recorded in Norway @ that time.

**1999; Deepwater Drilling Superintendent (Saga Petroleum).** Ultra deep water well (1340m w.d), Voring Plateau, Norwegian Sea, based in Stavanger. Delivered best in class deepwater performance for Norwegian exploration wells at this time.

**1999; 'Technical limit' planning & well engineer (Norske Shell)** for a two well exploration campaign, based in Stavanger. *Drilling delayed until rig became available.*

**1998; Senior Drilling Supervisor (Consortium).** Six remote hostile environment "F.O.S.A. consortium" exploration wells in the North Falklands Basin, using a Semi-submersible, Borgny Dolphin. Adopted a 'keep it simple' strategy with campaign delivered months ahead of schedule.

**1998; Senior Drilling Supervisor (Enterprise Oil)** Semi-submersible operations drilling horizontal sub-sea development drilling operations on Pierce field (complex salt diaper wells).

**1996-98; Drilling Operations eng (Norske Shell), Drilling Supervisor (Consortium,)** 5 Semi-submersible exploration wells, BP Norge, Norske Shell, Conoco AS. Plus a subsea intervention.

**1996; Senior Drilling Supervisor (BP),** Phase 1 of UK's first **Deepwater horizontal, subsea,** development 'i.e. Foinaven. Drilled and completed 4 months ahead of schedule.

**1995; Senior Drilling Supervisor (Oryx Energy),** semi-submersible Neddrill 6. One subsea well intervention & workover. One development well & subsea completion on UK Ltd Lyell field.

**1995; Senior Drilling Supervisor (Sasol)** "Wildcat" deepwater well offshore Namibia. Included onshore pre-planning, well engineering & offshore supervision.

**1994-95; Senior Drilling Supervisor (Amerada Hess);** Semi-Submersibles, Santa Fe 140 and Santa Fe 135 from rigs on hire for exploration sub-sea North Sea, appraisal wells.

**1994; Senior Drilling engineer (Enterprise Oil).** Well preparation, rig audits, inspections, tendering to drill HPLT exploration wells using a semi submersible, (Ocean Liberator), offshore Romania, Black Sea.

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**1993; On-shore software testing and onshore/off-shore training for BP drilling personnel,** Operators windows based reporting and drilling engineering software package (i.e. D.E.A.P.).

**ADDITIONALLY: During 1998 – 2005 consulted as Drilling-Trainer;**

Providing deepwater and HPHT training course & seminars for clients as outlined in resume.

## ***Work experience (1980 – 1993 as an Oil Company employee.)***

### **1986-93 Senior Drilling Supervisor (BP Exploration, Shell International).**

**Jan 93-July 93;** Exploration & Appraisal drilling ( **Henry Goodritch (Deepwater well test), Sonat Rather (Deepwater),** Sedco 711, Sea Explorer, **Ocean Valiant (Deepwater)** ), Production drilling and workovers on Clyde ERD well, and Forties Platforms.

**Oct 92- Jan 93; testing a suite of windows based reporting and drilling engineering applications.** Prepared technical and training material associated with this project during this time.

**May 1989 - Oct 92;** Exploration, Appraisal and development drilling on Semi's **Treasure Searcher ( Offshore Canada. ) , Ocean Alliance ( including Deepwater & HPHT wells ) ,** Sedco 711 ( HPHT ), Santa Fe 140 (Deepwater), Sonat Rather (Salt Diaper appraisal), Sea Explorer, **Ocean Valiant (Deepwater).** Production drilling and workover on Miller, Clyde (ERD well), Magnus and Forties Platforms. Commissioning work, Miller platform, delivered fishing and milling guidelines for drilling manual.

**BP Senior Drilling Supervisor. Oct 1988 - May 89.** Production drilling and workovers on Forties Platforms. Included installation of 11 ESP completion's. Assisted in developing workover program.

**1987; Shell Drilling Supervisor.** Exploration and development drilling on Semi Submersible Stadriil, Production drilling and workovers on Brent Bravo and Delta Platforms.

**1986; Shell Drilling Supervisor.** Brunei Shell; Exploration, development and production drilling operations onshore and offshore. ( Jack up / Tender barges.) Produced rig-site well control manual for company land rig.

**1982-85; Brunei Shell Drilling / Assistant driller.** Onshore and offshore drilling and well servicing operations. Working for various drilling contractors (Deutag drilling, Reading and Bates, Petrodrill. ) Spent 6 months office based producing company fishing / milling manual. Completed both round 1 and round 2 self study course ( 2 x 300hrs) and passed Shell round 1 ( 1983) and round 2 examinations ( 1985 ) during this period.

**1980-82; Shell International Trainee Driller.** Completed 16 weeks classroom course and 14months rig-site training working as roughneck, roustabout, derrickman etc. on light and heavy land rigs throughout Holland. Successfully passed trainee drillers examination.

## ***Work experience ( Pre-Oilfield.) 1973 - 1979***

**Marine Engineer.** Performed marine engineering duties as required being promoted from Junior, 4th Eng. to 2nd Eng officer serving on various foreign going vessels. Passed 2nd engineers certificate examination of competency as required by DOT in Jan 1979.

**Marine Engineer Cadet.** Trained as a engineer cadet completing 7 blocks of training (including 6 months at sea and 12 months workshop training and marine engineering project.) Completed HND mechanical (Marine) Engineering in this period.

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## **Personal training summary**

Current; MSc Petroleum Engineering	Herriot Watt; Commenced July 2004
Casing Seat / Stress Check	Landmark, January 2006.
2-day Mathcad course.	Adept-science, Feb 2004
Horizontal drillstring & BHA design.	Drill Tech. Inc. IADC/SPE Feb. 2000
Msc Drilling engineering.	Robert Gordons University 1998-2002
Horizontal well control	Aberdeen Drilling School 1998
HPHT Workshop	Maersk Training Jan 1997
Drillstring Failure prevention	T.H. Associates 1996
Productivity awareness workshop	BP Exploration 1995
Horizontal Drilling techniques / applications.	Herriot Watt University 1993
Subsea Drilling and production technology	Herriot Watt University 1993
HPHT well control	BP Exploration 1992
Stuck pipe prevention	BP Exploration 1992
Mud engineering	BP Sunbury 1991
Introduction to Petroleum Engineering	BP Exploration 1990
Petroleum Economics	BP Exploration 1989
Presentation skills and report writing	BP Exploration 1987
Formation damage / sand control	Brunei Shell 1986

## **Safety related.**

Negotiating and communication skills	Aberdeen, Glasgow, 2005.
Media training.	Aberdeen, May 2005.
Advanced safety Auditing	BP Amoco October 98, May 2000.
Offshore fire-fighting and survival	RGIT, January 2002
Risk assessment	Norway, Scotec June 97
Safety delegates training (40hrs)	Norway, PTI, May 97
Permit to work	BP Exploration 1992
COSHH	BP Exploration 1992

## **References**

Chris Abbot, Drilling Manager, [cabbot@maerskoil.co.uk](mailto:cabbot@maerskoil.co.uk)  
George Conway, Drilling Supt, Total Indonesia, [george.conway@total.com](mailto:george.conway@total.com)  
Steve Devereaux, CEng, Drilling Management Consultant, [steve@drillers.com](mailto:steve@drillers.com)  
Bill Abel, PE, Abel Well Engineering, [Bill.abel@aol.com](mailto:Bill.abel@aol.com)

## **Languages**

Intermediate Bahasa (written, reading & spoken).  
Some working Dutch & Norwegian.

## **Hobbies**

Rugby (Glenrothes 2<sup>nd</sup> XV), Judo (2<sup>nd</sup> Dan), Social Golfer (16hcp), Keen table tennis.  
tennis & Squash player. Sailing when climate allows. Music, guitars, singing, relaxing  
and working in the garden.