

**Synopsis – multi-talented, technical & professional.**

- Senior technical principal with established leadership and team building skills (25+ yrs).
- International and consulting background with dual broad focus: 1) petroleum engineering, field development, drilling and 2) climate change, renewables, decarbonisation.
- Thriving on complex integrated issues, technical and non-technical; track-record integrating multi-discipline challenges into cohesive strategies; improviser.
- Exceptional analytical powers, a broad knowledge base and quick learning.
- Communicating complex issues with clarity.

**Key Areas of Expertise – Petroleum Engineering, Climate Change**

- Integrated Field Development (all flow-related disciplines), Production Technology.
- CCS / Carbon Capture & Storage – subsurface, petroleum engineering and wells
- Production Optimisation, including business processes to expand and sustain
- Climate Change, Energy Transition, Renewables, Circular Economy & Sustainability.
- Technical project integration, troubleshooting complex interactions.
- Systems modelling & analysis
- Business Transformation & Change Management, Assembling and Growing Teams
- Overview with detail: Technical Helicopter Ability, Technical Strategy formulation

**Career Highlights**

- 2020 - CNOOC/Buzzard Sand Management Strategy: new analysis of old problem, strategy, on short schedule with buy-in.
- 2016-'18 - Engaging at top and technical level with sustainable energy development: understanding at top level, politics open for growth.
- 2010-'12 - Functional Head Petroleum Engineering at Baker RDS consultancy: all PE multi-discipline deliverables, PT subject matter expert. This was fun!
- Group processes for integrated field developments (2001-'14) and multi-discipline production optimisation fora ('96, '03, '05): improving production and project delivery.

**A: Professional Experience: Climate Change, Transition, Sustainability**

Jan 2021 – present: miscellaneous training, activism and activities (COP26)

2018: Sustainability Lead, Director ACA:

*Sustainability Lead (OceanValley Ltd, Canary Islands)* Facilitated establishment of Miscanthus crossing blocks for UK company. Evaluated natural sewage treatment processes and installations; developed proposal for restoration of circular agriculture system with sewage treatment, co-created H2020 EU consortium for research/funding, documentary film, website, crowd-funding. Designed and installed solar installations, irrigation systems.

*Director - Aberdeen Climate Action CIC (ACA)* Supported Climate Week North East 2018; also strategic/advisory.

Aug 2014 – '17: Founder ACA, Principal consultant oil and sustainability

*Founder, Director - Aberdeen Climate Action Ltd/CIC (ACA)* Co-founded Aberdeen Climate Action Ltd. Connecting climate and energy related organisations in the north-east of Scotland, member of NESCCP. Created, managed and coordinated regional Climate Week events (2015, 2016, 2017) with other NGO's and councils (Green Apple Award 2016). Run/coordinate website, social media, graphical work, exhibits and technical presentations with schools, films, public. Climate Week is now a prominent regional feature.

*Director / Principal Consultant - OceanValley Ltd* Broadened focus on "Integrated Sustainability": Delivered analysis of Repsol/Canaries exploration (Economical and Technical Risks), guest lectures (Robert Gordon University), prepared/presented at Devex 2015, 2016 on Energy future, COP risks. From end 2016 based on Canary Islands, developing contacts & proposals. Delivered analysis of government energy transition plan, proposed conversion of government test-farm, analysed approach for island wind-hydro system, etc.

**B: Professional Experience: Petroleum Engineering (recent)**Nov 2019 - Mar/May '20: Principal Production Technologist (CNOOC)

Developed Sand Management Strategy for UK biggest sand producing platform "Buzzard"; presented to multi-discipline technical/management team. Provided technical assurance support. Awarded CNOOC "focussed recognition".

May - Jul 2019: Principal Production Technologist (CNOOC)

Completed productivity failure analysis on SA-Screen well; implemented radical modification of bean-up process, developed completion *modifications* (design and ops), and supported buy-in of team and partners for tight schedule project design modifications. Twice awarded CNOOC "focussed recognition".

Apr 2013 - Sept '14: Principal Production Technologist (AGR consultancy)

**CCS development:** Well Basis-Of-Design for Carbon Capture and Storage (CCS) project, structure abandonment risk analysis, monitoring strategy, and coordination and integration with project sections.

**HPHT development:** Review operator work for non-op client's new high pressure high temperature development, flow-assurance and cross-discipline issues and risks.

**New area Field Development Plan:** For non-operator, analysed & reviewed work and plans for new Field Development with small integrated team, improving scenarios and alternatives.

Oct 2012 - Mar '13: Discipline Lead & Technical Authority Prod. Eng. (TAQA)

QA/QC and approval of all proposals from PEs, well lifetime decisions, complex fields (Harding transition from BP). Improved impact of Prod. Eng. on bottom line with technical and organisational improvements e.g. IPSC, targets, deferment, potential and opportunity-inventory and -visibility, resolving long term exposures, growing team size and status.

Oct 2010 - July '12: Functional Head, Petroleum Eng. Global / Aberdeen (Baker Hughes/RDS Consultancy - staff)

Technical QA of projects, practices, staff development & management, knowledge transfer, deployment of optimal technology, business strategy and skills matrix development. Responsible for Reservoir Engineering, Production Technology, Production Chemistry, Geomechanics, deputy Wells/Drilling. Baker Hughes Subject Matter Expert Production Technology (2011-). Petroleum Engineering reviewer of UK CCS pre-feed study (Eon/Scottish power), of Israel's first government approved FDP, and countless others. Co-presented "subsurface fundamentals" and project management training. Co-organised and presented Baker Hughes "mature field development" industry workshop.

**C: Valuable Experience: Ocean Sailing**July - Dec 2020: Project manager/Captain

Upgrading, making seaworthy, sailing and selling 17m classic yacht, Canaries to Netherlands.

Jul - Sept 2019: Captain/mentor, Transatlantic phase 2

Led and managed north-transatlantic sailing journey: Bermuda, Canada, Scotland (Greenland, Iceland); to mentor experienced (yachtmaster) skipper.

Jan - Apr 2019: Captain/mentor, Transatlantic phase 1

Led and managed south transatlantic + Caribbean sailing journey, Canaries, Caribbean, Bermuda; to mentor experienced (yachtmaster) skipper.

Earlier: Captain/Project manager

Many shorter and longer ocean voyages, including: 2016 (Sep-Nov): Scotland to Canaries, 2015 (Apr, Jul-Aug, Oct) Scotland; 2013: Baltic; 2008 (June-Oct): Scotland-Iceland, 2006: Ireland, 2005: Baltic; 2003-'04: Atlantic circuit; '99-2000: Yacht rebuild (Oman, Dubai) and journey (Oman to Cyprus); 1998: South Africa to Oman.

**Earlier Career (1989-2009)**Consulting (OceanValley Ltd.)

- Mar - Aug 2010: Sr. Production Technologist (Shell UK) (Kingfisher infill project)
- Nov 2008 - Dec '09: Team Leader/Principal (Helix RDS consultancy), London/Aberdeen
- Feb 2007 - May '08: Prod. Technology Team Leader (Helix RDS consultancy)
- Oct 2006 - Feb '07: Production Engineer; Petro S.A. Compiled "Start-up and Operating Manual" subsea infrastructure, South Africa (200MMscf/d)
- Nov 2005 – May '06: Sr. Prod. Technologist; Shell Expro. Production Technology + organisational support to the Brent-Penguins area.
- May – Jul 2005: Sr. Prod. Engineer; Helix RDS ~ PNZ Project. Production engineering guidance, leadership and support to Helix Technical Limits review.
- Sep 2004 – May '05: Sr. Prod. Technologist; Encana/Nexen. PT team leader (40kbpd, 80MMscf/d). Design and implement allocation & loss reporting systems, improve business processes. Supported cross-discipline optimisation forum.
- Jan – Aug 2003: Sr. Prod. Technologist; Amerada Hess, Aberdeen. Lead PT team Scott/Telford + IV/RR. Introduced asset-wide Production Optimisation forum.
- 2002: Prod. Technologist; Shell Expro, Aberdeen. Area Stimulation Review, 100+wells.
- 2001 – '02 Technical Project Manager (Gas Lift Opt.); Petronas Carigali, Malaysia. Manage, build field models, select & implement opportunities, buy-in at all levels.
- 2001: Prod. Technologist; Shell Expro/Consultancy Services; PT advice and studies.
- 2001: Prod. Technologist, Aberdeen; Helix Well Technologies. Re-wrote BP-Amoco Completion Design manual, Artificial Lift section.

1991-'99 Shell International E & P (staff, multiple secondments)

- 1998 – 1999: Commissioning Prod. Technologist – Oman LNG; gas/condensate fields solids mgt. Delivered Subsurface Operating Philosophy.
- 1996-1998: Operations Prod. Technologist – Petroleum Dev't Oman (PDO); Rima area (14 fields, 100kb/d, heavy + light oil); all PT support.
- 1994-1996: Operations Prod. Technologist – Shell Expro UK; Integrated Production Programming and Operations PT. Delivered Prod Optimisation forum.
- 1991-1994: Wellsite Operations Engineer – Shell Expro UK; Kittiwake, Auk, Fulmar; Brent Derrick replacements, Well Ops Audit, anchor strategy.
- 1991: Trainee Wellsite Drilling Engineer – NAM (Netherlands); Round 1 Drilling; training in subsurface, integrated field development, operations.

1989 – '90: Principal Engineer, Director – own company, Netherlands

- Computer hard/software development, num./linguistics, product dev't & prototyping.

**EDUCATION & Training**

Professional Training: during entire career all training related to positions: technical, management, safety, development, 20-40 hours annually. Also:

2021: participated in Transition Summit series – Transport, Industry, Energy

2021: The Economics of Energy Transition - professional certificate (DelftX/edX)

2021: Co-creating Sustainable Cities (DelftX/edX)

2021: Sustainable Energy: Design a Renewable Future (DelftX/edX)

2020: Climate Reality Leadership Training (Al Gore/Climate Reality Project)

2020: Climate Denial 101(UQx/edX)

2017: Awareness Based Systems Change (MITx/edX)

2016: Circular Economy - Introduction (DelftX /edX)

MSc (Ir) in Applied Physics - University of Groningen, Netherlands (1981-'88)

Specialisation materials technology. Extra-curr: Business Studies, Marketing, and Psychology.

Gymnasium B (Drachtster Lyceum, Netherlands)

**Languages**

Dutch, English: Native (bilingual); Spanish, German, French: reasonable (speak, read).

**Other Interests & Skills**Public Speaking

12 years Toastmasters Int'l (-2017), started two clubs. Climate Reality leader.

Mentoring

Work with senior professionals on career decisions & development, reciprocal arrangement.

Ocean Sailing

Over the years over 40,000 nautical miles, in own yachts and others', plus coastal.

**Personal Data**

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