



**“The pinnacle of Well Engineering, Project Management and Consultancy Services”**

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# Introduction to Zenith

Established in 2012 by Martin Booth and Chris Collie, the Zenith team comprises of selectively chosen engineers, becoming one of the most experienced engineering teams in Aberdeen. Martin has been involved in over 45 well management projects at Superintendent and Operations Manager level. Chris has been involved in over 25 well management projects at DE, SDE and Well Team Leader level.

Zenith Energy is an independent Well Management Company, owned and run by engineers, with the ability to react quickly and deliver our clients requirements to an extremely high standard. We believe that our experienced team can provide a minimum risk well management solution to operators.

Zenith can provide the following services:

- full Project Management (planning/operations team)
- engineering Support
- engineering Advice
- consultancy Services – using our contacts, we can bring experienced, known people into the team
- DWOP and Performance Improvement Coaching and methodology

# Clients

Since establishment in 2012 Zenith has worked with 23 different operators carrying out a range of Well Project Management, Well Engineering and Consultancy Services. These operators include:

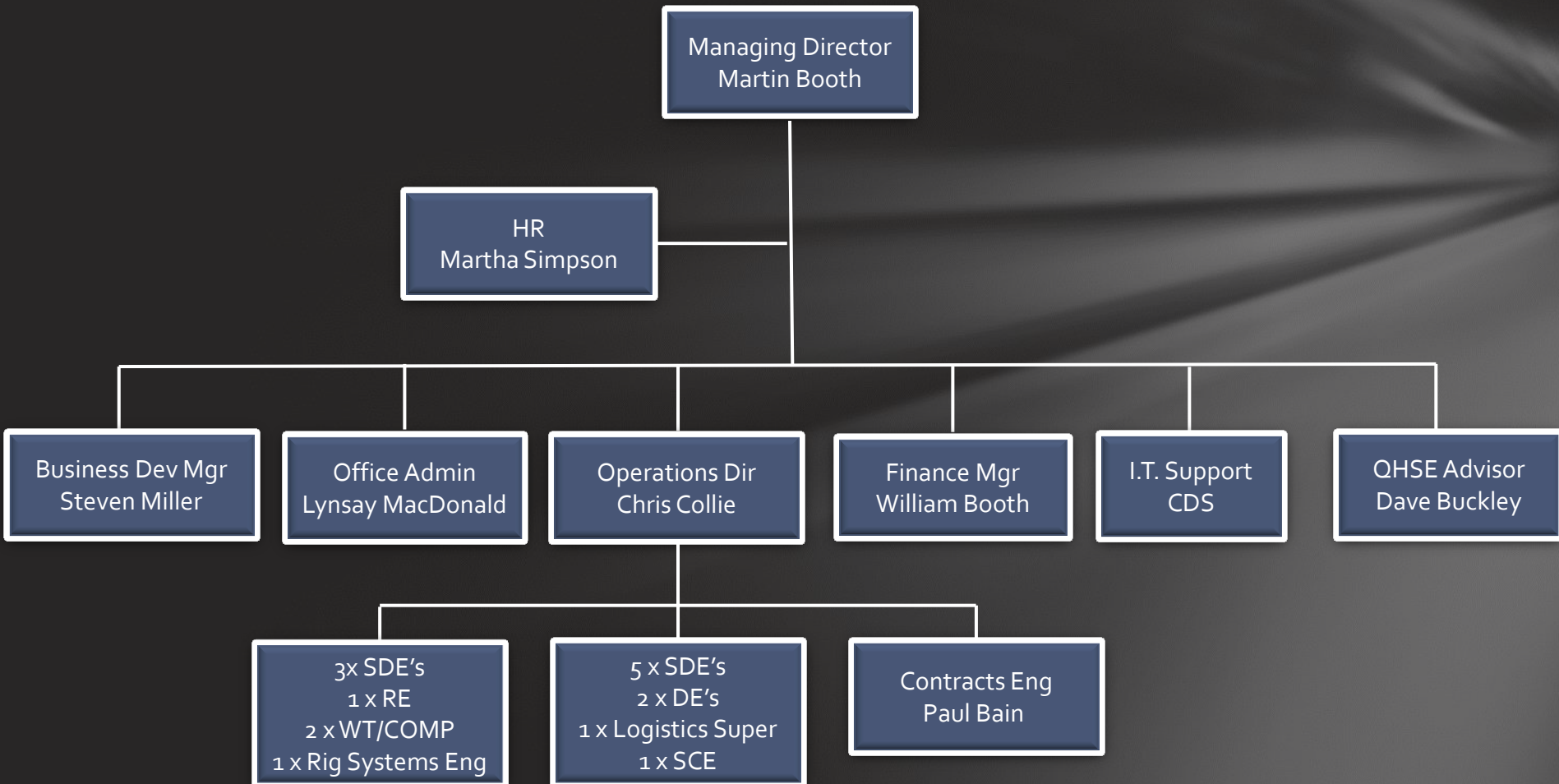


# Well Engineering Contracts

Zenith has Well Engineering contracts set up with the following clients to enable them to utilise the full suite of Zenith Engineers on an ad hoc basis:



# The Core Team



# Zenith Management Team

## Martin Booth – Managing Director:

Martin has 26 years experience in the Drilling Industry as DE, Drilling Superintendent and Drilling Manager. Types of wells Martin has been involved with include HPHT, Deep Water, Drillship, DP-Semi, Moored Semi, Jack Up, Platform and Land. Martin has worked in various areas including UK (all areas), Ireland, Falklands and West Africa. Extensive experience in Exploration, Appraisal and Development Wells.

## Chris Collie – Operations Director:

Chris has 12 years experience in the Drilling Industry as DE, SDE and Well Team Leader. Chris has worked across the UKCS with both Jack-up and Semi Submersibles including West Of Shetland. Experience also includes remote location wells West of Ireland and Falklands and West Africa projects.

## Steven Miller – Business Development Manager:

Steven has 9 years experience in the oil and gas industry holding a number of sales and business development positions in the freight, rig consumables and downhole drilling sectors. Steven's most recent post at Churchill Drilling Tools saw him responsible for looking after the UK and Norwegian markets before spending time in Houston helping to set up the first Churchill office in the USA.

# Zenith Core Team

Senior Drilling Engineer - 34 years' experience in the drilling industry as a SDE, Drilling Supervisor, Drilling Superintendent and Well Team Leader working in the UK, KL, Australia, Vietnam and Africa. Richard has extensive platform, semi, Jack up and ERD experience.

Senior Drilling Engineer - 29 years' experience in the drilling industry specialising in HPHT and well control planning.

Senior Drilling Engineer - 28 years' experience in the drilling industry specialising in front end HPHT and deep water well design.

Senior Drilling Engineer - 19 years' experience in the drilling industry as HPHT SDE, Superintendent, SDE and DE. Operator trained (Shell and Exxon Mobil) with experience of HPHT, ERD, Deepwater, exploration and development projects throughout the UKCS and Ireland.

Senior Drilling Engineer - 18 years' experience in the drilling industry as DE and SDE. Vast experience UK offshore including HPHT and TTRD.

Senior Drilling Engineer - 13 years' experience in the drilling industry as SDE and DS. Experience in the UK, Norway and the Falklands.

Senior Drilling Engineer - 11 years' experience in the drilling industry as DE and SDE working UK, Falkland's, Israel and North Africa with extensive deep water experience.



Senior Drilling Engineer - Shell trained SDE with 13 years' experience in UKNS and the Netherlands. Experienced in Land, HPHT, Jack Up and Subsea Horizontal Development Wells. Specialises in Wellcat Casing Design.

Drilling Engineer - 7 years' industry experience most recently as a Drilling Engineer and Night Drilling Supervisor. Land, Semi, Platform & Jack-up experience in the North Sea, Europe, Americas, Australasia and Middle East. Appraisal, workover, horizontal and shallow well experience.

Drilling Engineer - 3 years experience in the Drilling Industry as Drilling Engineer and Night Drilling Supervisor. Experience offshore UK, Norway and The Falklands.

Senior Completions Engineer - 26 years experience in the drilling industry. Vast experience in operations including well test, completion, ESP completion, gravel pack operations, DST, TCP, slick line and electrical line operations.

Senior Completions Engineer - Completions Engineer with over 20 years' experience. Experience covers all aspects of well testing, completions and well intervention from heavy crude oil jobs to deepwater and HPHT wells.

Completions and Well Test Engineer - Completions and Well Test Engineer with over 10 years' experience of planning and supervising DST and completions operations and Production Technology work in the UKCS, Falklands and Africa. Experience with sand face completion selection, completion and well test design, multilateral completion design, tubing sizing and stress analysis, natural flow and artificial lift DST's and well intervention operations.

Logistics Superintendent – Logistics Superintendent with over 32 years experience in Materials and Logistics support for the Drilling Industry. He has been involved in Land Wells and Offshore Wells utilising Drill-ship, Jack-up and Semi-sub rigs, on numerous wells including HPHT, Deep Water and Extended Reach. Kevin has worked in UK, Ireland, Europe, West Africa and Iran.

Senior Reservoir Engineer - Senior Reservoir Engineer with over 30 years reservoir engineering experience in the UK and Norwegian North Sea.

Rig Systems Engineer - Rig systems engineer with 14 years' experience in rig auditing, rig acceptance and Rig ITT process with Semi, Jack Up and Land Rigs.

Contracts Engineer - Contracts engineer with 11 years' experience of contracts and procurement in the oil and gas industry. Experience includes working for both operators and service companies.

Site Surveys - Zenith have highly experienced personnel contracted and available to undertake any site survey requirements.

# Current Zenith Projects

- **Alpha Petroleum:**
  - ✓ Ongoing provision of an SDE to provide high level well planning and cost estimates to CNS App and Dev projects and SNS App well.
- **Antrim Energy:**
  - ✓ Provision of well engineering and supervision for the Fyne and Erne vessel based abandonments acting as the Antrim drilling department.
- **LGO Energy:**
  - ✓ Provision of a Drilling Manager and Drilling Supt to manage a multi well onshore development drilling campaign in Trinidad.
- **UKOG:**
  - ✓ Conceptual well design, rig specification and time/cost estimate for onshore to offshore exploration well, Isle of Wight, highly deviated, multiple stacked target reservoirs
- **Enquest:**
  - ✓ Provision of a SDE to plan a subsea well in the UK.
  - ✓ Provision of NDSV's for the Heather Platform & Stena Spey.
- **Rockhopper:**
  - ✓ Well planning and cost estimation for onshore well abandonments and sidetracks in Italy.

# Recently Completed Zenith Projects

- **Europa Oil & Gas:**
  - ✓ Full Well Management for a 2500m conventional exploration well onshore UK.
- **CNR International:**
  - ✓ UK Platforms – Provision of relief well planning for multiple UK Platforms.
- **Total:**
  - ✓ Preparation and delivery of bespoke HPHT Training Courses.
- **Glencore:**
  - ✓ Multi disciplined team to provide Glencore with a well engineering analysis for a shallow water, shallow well development project offshore Cameroon.
- **Heritage Oil:**
  - ✓ Well design, rig spec and time/cost estimate for remote location, onshore well to be drilled in Tanzania.
- **Eland Oil & Gas:**
  - ✓ Readiness review completed for a drilling campaign to take place in Q4 2015/Q1 2016.

# Europa Oil & Gas ( Kiln Lane)



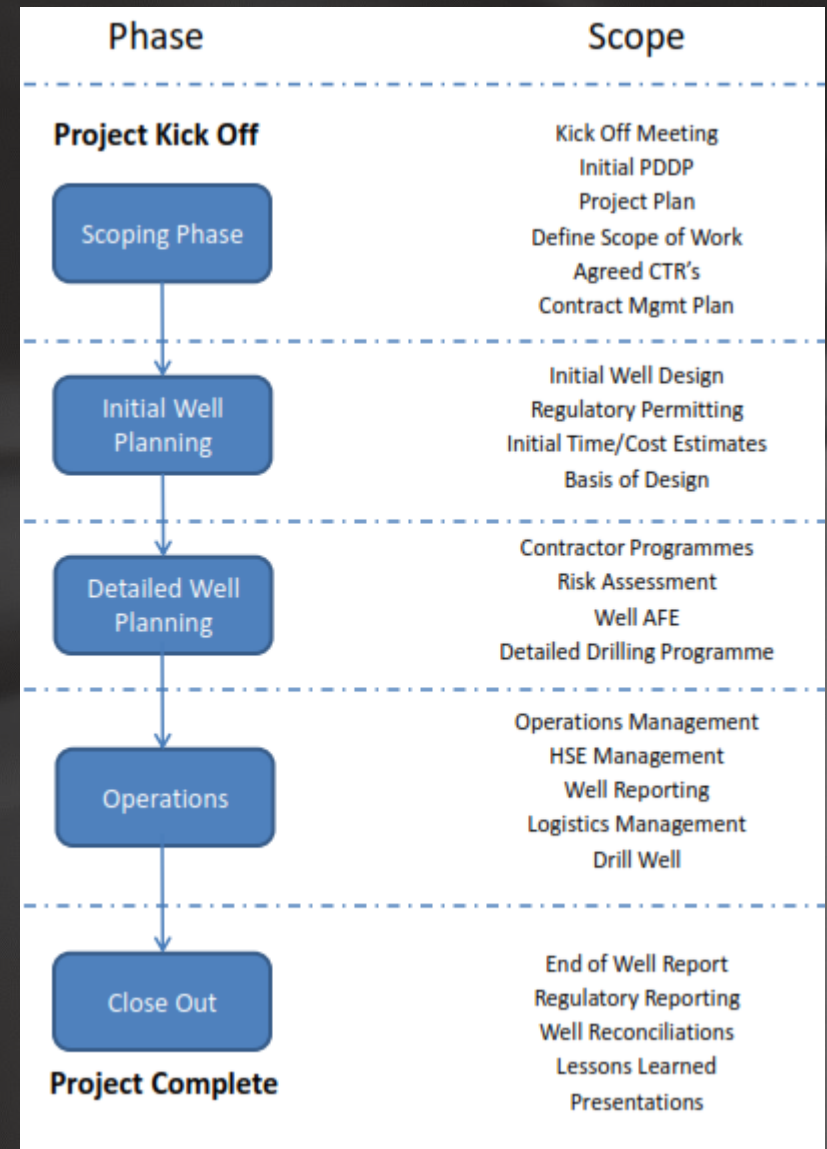
*BDF Rig 28 on location and drilling ahead the Kiln Lane exploration well*

# Kiln Lane Work Scope

- Full project management for the planning, permitting, contracting and operations for the 2500m Kiln Lane exploration well – 1<sup>st</sup> well in large licence area, limited offset data
- All 3<sup>rd</sup> party services tendered, evaluated and awarded by Zenith. Also provided contract negotiation and issue of contracts to Europa for signature
- Rig tendered, evaluated, audited and contract negotiated by Zenith
- EA permits prepared, submitted and approved by EA (Zenith with support from 3<sup>rd</sup> party environmental company)
- Zenith provided input to site construction and security provision
- Well design modified to achieve client objectives and budget
- Operations team at well site and in Aberdeen to support operations (DSV, NDSV, D. Supt, Log, Ops Acc)

# Accreditations

- ISO 9001 Accredited
- FPAL Registered (UK & Ireland)
- Full suite of policies and procedures for well construction and delivery
- Well Delivery Process:
  - Zenith process that takes the project from the initial planning stages through detailed design, project execution and subsequent project close out.
  - Landmark Decision Space engineering software



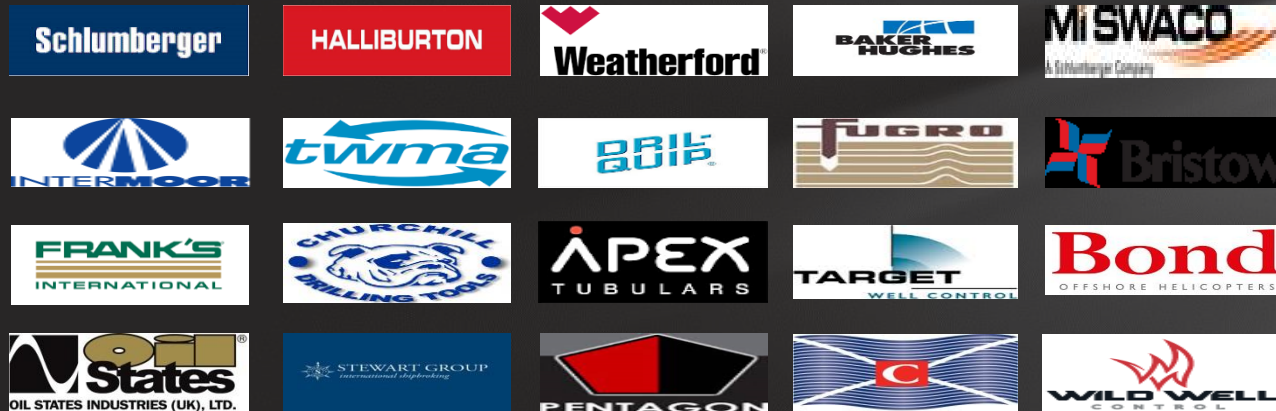
# Third Party Contracts

Zenith has negotiated and executed a suite of strategic MSA's to setup a supply chain capable of supporting our well project management capabilities. The MSA's have been executed with the major service companies and specialised niche service companies

We have experience of contracting all services for clients for a range of projects, both UKCS and remote location operations.

Zenith have a suite of over 30 MSA's set up

Below are some of the companies Zenith have MSA's with:





# References – contact details available

- Europa – Hugh McKay (CEO)
- Dana Petroleum – Andy Mellor (Drilling Manager)
- Glencore – Ewen Denning (Operations & Development Manager)
- Circle Oil – Mitch Flegg (COO)
- Antrim Energy – Murray Chancellor (Managing Director)
- Alpha Petroleum – Graham Walters (Managing Director)
- CNR International – Chris Wark (Well Team Leader – Africa)
- LGO Energy – Fergus Jenkins (COO)