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ENGINEERING

HITI Presentation

January 2007

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Where in Europe are we ?



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BACKGROUND

- **OVER 100 MAN-YEARS OF DOWNHOLE EXPERIENCE**
- **PIONEERING MEMBER OF UK “HOT ROCKS” GEOTHERMAL PROJECT**
- **FUNDAMENTAL R & D**
- **EXTENSIVE EXPERIENCE OF VERY HIGH TEMPERATURE DOWNHOLE TOOLS**
- **ONE-OFF TOOL DEVELOPMENTS**
- **OIL & GAS INDUSTRY**
- **GEOTHERMAL**
- **AEROSPACE**
- **MARINE**

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THE PEOPLE

Engineers

- 5 Mechanical
- 2 Electronics / software
- 1 IT manager/electronics tech

- 1 Administration

Manufacturing

- 3 Toolmakers
- + subcontractors

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Where it all happens !



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Manufacturing facility



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Selected HT Tools

1982-1991	Callipers, Production Tools, TV systems, Hydrophones, Seismic sondes, Explosive devices, Acoustic sources	UK Department of Trade & Industry
1992 - 1997	Borehole sparker seismic source	PNC, Japan
1994 - 1998	High temperature Cable heads, Operational at 288°C	Bishi Metals, Drico Japan
1992 - 1998	200°C accelerometer based seismic sondes	Socomine, France
1991 - 1993	350° C Focused resistivity tool	O D P, USA
1996 - 2001	Pressure, temperature, flow equipment @ . 200°C for cable based systems and @ 300°C for memory based systems.	GERD, Japan Socomine, France
1998 - 1999	Reliability evaluation and recommendations of 175°C Pressure/temperature Gauge for permanent deployment	Service companies Aberdeen
1998 - 2001	Custom R & D for slim (1.25 & 0.75") , 200°C permanent gauge systems, system manufacture	Service companies Aberdeen
1993 - 1999	300°C & 400°C Geochemical sampler	NEDO, Japan
2000 - 2001	Design, development & manufacture of downhole production control electronics system – CAN bus based	Service companies Aberdeen
2001 - 2002	Design, development & manufacture of downhole production safety critical control systems	Service companies USA
1999 - 2003	Development of a 250°C electronic hybrid with 20 year life characteristic	Goodrich Rolls Royce
2002 - 2003	Development of 350°C memory PLT system	Calidus Ltd

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350°C Memory PLT



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HITI

Multi-Sensor Dual Laterolog

...“ as a company we are looking forward to working with some of the best scientists and engineers in this unique and challenging project.”

We would also like to express our appreciation for dedication and hard work by all those who have assembled the people and paperwork to make the HITI project possible.

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