

**Geothermal Radial Drilling
Client Reference**



Client:	Mr & Mrs C. Sterling
Address:	Eyeworth Bedfordshire
Type of building:	Manor house conversion and extension. Approx: 3,000 sqft
Previous heating system:	Oil fired
New heating system:	Underfloor heating in lounge, dining room, hall Radiators in Play room, kitchen and all upstairs bedrooms Underfloor heating in upstairs bathrooms
Heat Pump:	NIBE 1330, 30kW CoP 4.0, Ground req: 22.5kW
Heat Pump Installer:	EarthNRG Systems Ltd Contact: Mr Grant Harrold
Collector req:	22.5kW
Geology:	Woburn Greensands
Borehole Configuration:	10 Boreholes of 50m length 3 boreholes @ 65 deg 5 boreholes @ 55 deg 2 boreholes @ 45 deg
Operational:	September 2009
Client comment:	<p>We were motivated, by increasing oil prices and a general awareness of the need to employ less wasteful methods of generating our heating requirement, to look at renewable energy sources.</p> <p>At the same time we decided to improve the insulation generally throughout the house and this proved to be a big benefit.</p> <p>When researching the 'science' of heat collecting we felt the GRD system was much more sustainable and did not carry the risks of permafrost that have been reported with 'slinky' and 'twin borehole' systems. Furthermore, the GRD system creates virtually no mess or groundworks upheaval during installation.</p> <p>The package put together by EarthNRG and Warren Ecological was complete and very professionally managed.</p> <p>We have used the system during the harsh winter of 2009/10 and the system performed with complete success.</p>