



PETRATHERM LTD

PROJECT OFFICER

JOB & PERSON SPECIFICATION

JANUARY 2010



COMPANY OVERVIEW

Corporate details

Petratherm Limited, a company which listed on the Australian Stock Exchange in July 2004, is one of the foremost developers of clean geothermal energy technologies, both in Australia and internationally. Geothermal energy aims to harness the earth's vast natural heat resources turning the heat energy into power. The potential global resource base is large, emission free, base-load, and competitively priced.

Petratherm's expertise includes its pioneering methodology to locate new geothermal resources. It has applied leading edge mineral exploration technologies and advanced crustal thermal modelling in collaboration with researchers from the University of Adelaide to generate strategies specifically designed to explore for shallow heat resources below the earth's surface.

Petratherm's business strategy is centred on creating a portfolio of quality projects and continually looking at how to reduce costs, reduce risks, and increase revenues in order to enhance shareholder value.

Through its board, management, partners, consultants and contractors, Petratherm has the full range of skills, abilities and experience to successfully execute its planned strategies. These skill sets cover exploration, deep drilling, fluid engineering, electricity generation, grid connection, power transmission and marketing – critical elements to being a lead player in the Australian electricity market.

Mission Statement

Petratherm will :-

- explore for sources of geothermal energy in the unique South Australian Heat Flow Anomaly, elsewhere in Australia, and overseas;
- choose targets at economically manageable depth, favourably located to potential markets;
- test hot rocks, specifically granitic and hydrothermal iron oxide systems, with high temperatures;
- aim to establish an economically viable, emission-free, renewable source for power generation.

Petratherm has :-

- applied advanced minerals exploration data to the energy business;
- sought hot rocks at manageable depth;
- acquired tenements near markets where substantial power is and/or will be required;
- undertaken research with the University of Adelaide's commercial development arm, Adelaide Research & Innovation Pty Ltd;
- developed an exploration method to minimise exploration risk;
- undertaken financial modelling to establish the economic viability of its corporate objectives;
- successfully undertaken drilling programs realising the highest temperature gradients measured in hot rock exploration in Australia;



COMPANY OVERVIEW

- successfully obtained the South Australian Government 'Plan for Accelerated Exploration' (PACE) grant to support the drilling program;
- commenced work in establishing Petratherm overseas, where markets are significantly larger than those in Australia;
- raised funds by a share placement to further develop the Paralana site;
- entered into a Joint Venture with Beach Energy, for up to \$30m to develop an Underground Heat Exchanger at the Paralana Energy Project in South Australia;
- signed an MOU with Heathgate Resources to supply electricity to the mine from its Paralana Geothermal Energy Project;
- received \$5m Federal grant offer for Paralana Project in South Australia;
- announced that it has established a landmark exclusive agreement with four key Chinese Government Institutions to undertake a cooperative Project to identify high quality geothermal energy projects in China. This agreement uniquely positions Petratherm in the Chinese market and enables the company to develop the very large geothermal resource potential available in China to provide base load, large scale, emission free sources of heat and electricity in the world's largest growing energy market (November 2007);
- entered into a farmed-in agreement with TRUenergy Geothermal, for up to \$57m;
- signed a Letter of Intent for Ensign International Energy Services to secure a suitable rig and undertake drilling on Petratherm's advanced Paralana project in South Australia's far north. It is expected that this will commence in the second half of the calendar 2008 (November 2007);
- made a statement saying: "Petratherm and Joint Venture partner, Beach Energy Limited, are on track to have the Paralana project deliver first geothermal-based electricity supplies from early 2010. Initial drilling and test work by Petratherm has already proved up Paralana's heat profile. The aim is to establish the heat exchanger for the project where fluid is heated at depth as it circulates between an injection and production well, to produce heat at surface for eventual use in driving turbines" (November 2007);
- awarded \$7m Geothermal Drilling Program (GDP) Grant;
- commercial drilling program in mid 2009 proving to be well on track to achieve expected temperatures at target depth;
- applied for \$62.8m Renewable Energy Development Program (REDP) Grant. The company anticipates that an announcement of successful applicants to be made in October 2009.

Petratherm sees these potential advantages to hot rock geothermal energy :-

- zero GHG emissions;
- minimal environmental impact;
- provides base-load capacity;
- competitive economically;
- can be an extremely long term source.

For further information and recent announcements, please visit www.petratherm.com.au



JOB SPECIFICATION

POSITION: PROJECT OFFICER

REPORTS TO: PROJECT MANAGER

Position summary

Work closely with the Project Manager and contributing to the overall project management responsibility for the successful delivery of the Paralana Geothermal Energy Joint Venture project against agreed KPI's.

Duties and responsibilities

This will include :-

- assisting in and overseeing all on-site drilling and associated activity in close consultation under the Joint Venture with Beach Energy;
- reviewing and evaluating results of drilling programs and overseeing and evaluating the expected/achieved temperature results;
- conducting and/or undertaking supportive field activities including temperature sampling, evaluation, investigation and data management as required;
- supervising all work performed under contract in the field (drilling programs);
- writing detailed technical reports highlighting discoveries and findings;
- recording passive seismic array of natural background seismic information including micro-seismic events during fracturing of the rock with hydraulic stimulation (water pumped under pressure);
- preparing reports for submission to current government authorities/regulators;
- complying with and contributing to the Occupational, Health, Safety, Welfare and Environmental policies and procedures as set out in the Petratherm Policies, & Procedures Manual and which also comply with the regulatory requirements of the Petroleum Act 2000 (SA) and the Occupational Health, Safety and Welfare Act (SA).



PERSON SPECIFICATION

Qualifications

- tertiary qualifications as appropriate.

Knowledge

This position requires some knowledge of :-

- drilling experience;
- sedimentology;
- well logging (desirable but not essential);
- sub-surface reservoir mechanics (desirable but not essential);
- an understanding of fracturing techniques (desirable).

Personal abilities/aptitude/skills

This position requires :-

- strong communication skills, both oral and written;
- the ability to work within a small team environment;
- high levels of self-motivation and initiative;
- a positive outgoing and 'can do' attitude;
- creative thinking;
- problem solving skills;
- an analytical approach.



HOW TO APPLY

Applications in Word format only should be forwarded to David Dunnicliff by e-mail to 12065@hender.com.au

Telephone enquiries are welcome and may be directed to David on (08) 8100 8814 or Julie Fleet on (08) 8100 8806.

Please Note

Your application will be automatically acknowledged by a return e-mail.