



Geothermal Resources Limited
63 Conyngham Street
Glenside 5065 South Australia
phone 61 8 8338 9292
fax 61 8 8338 9293
email info@geothermal-resources.com.au
ABN 45 115 281 144

ASX / Media Release

29 September 2009

SEISMIC SURVEY COMPLETED AT FROME PROJECT

Geothermal Resources Limited (Geothermal Resources – ASX: GHT) advises that last week it completed a 27 km long seismic survey line at the Frome project (see map). The objective was to accurately map the top of the granite body along an approximately east-west profile in the vicinity of the proposed 3.25km deep injection and production wells, Frome 15 and 16.

The survey was completed by Terrex Seismic using three synchronized Hemi 60 Buggy mounted Vibrators (see photo). Since the crew and most vehicles were passing the project area en route to a large contract, mobilization cost to Geothermal Resources was minimal. The raw data has been sent to a seismic data processing firm and an initial output is expected within a month.

In its recent Geothermal Drilling Program (GDP) grant application Geothermal Resources proposed drilling Frome 15 and 16 to a depth of 3,250 metres, with the lowermost 250m of each well to be completed in hot fractured granite. To successfully achieve this outcome it is vital to have accurate depth data to the top of the granite, which the processed seismic data will provide. Hydrofracturing of the granite between the two wells, followed by closed loop testing, will enable flow and heat energy extraction rates to be determined. This will provide a high level of confidence in the recoverability of the Inferred Resource of 84,000 PJ of thermal energy previously defined for a portion of the project area (see Resource Statement released to ASX 13/7/09).

Gravity data was also recorded along the seismic survey line, and this shows good correlation with existing regional data.

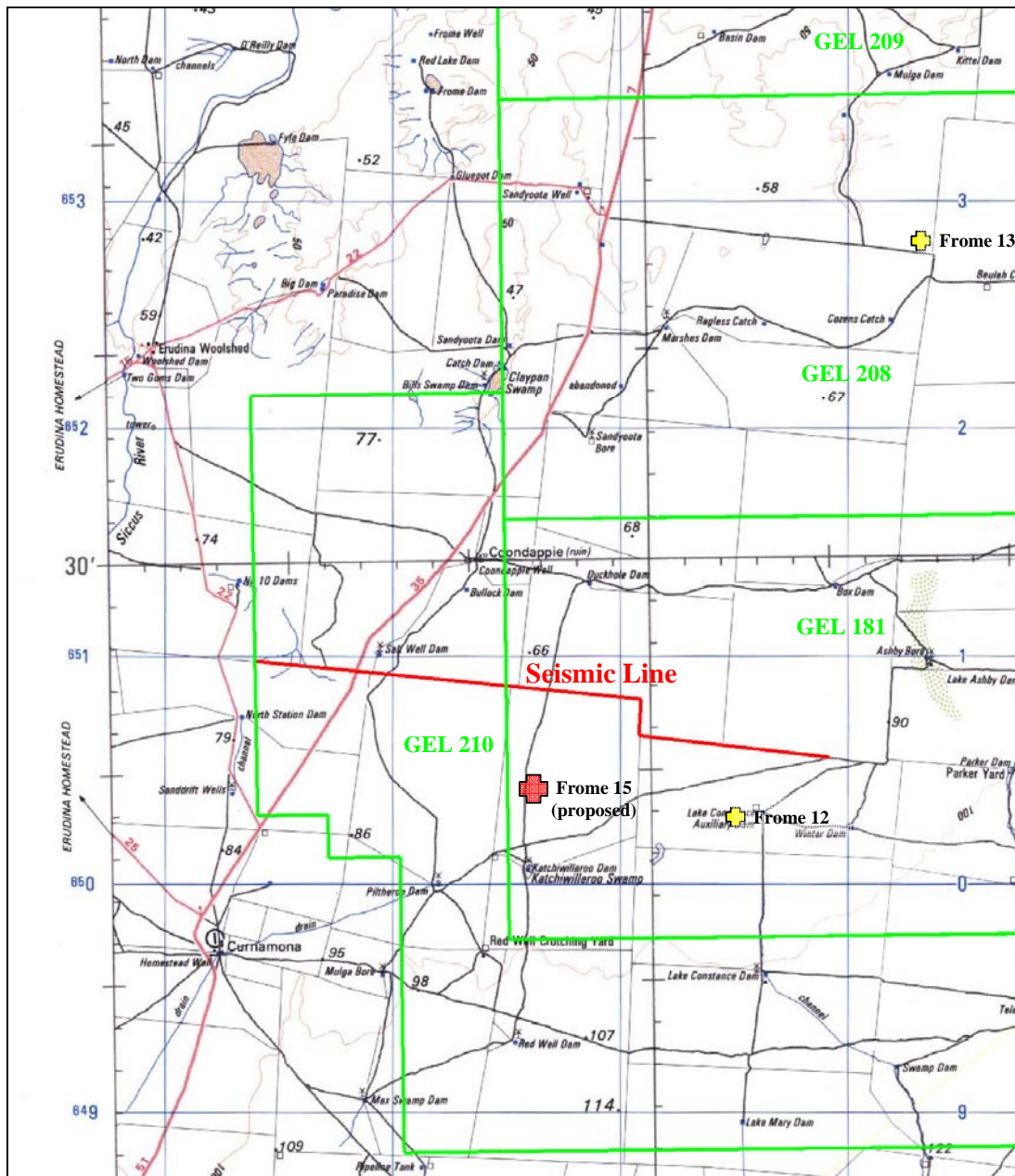
The seismic survey and other Frome project work is being supported by a \$2.4 million REDI (Renewable Energy Development Initiative) grant from the Federal Government that matches the Company's funding.

Geothermal Resources is 58.45% owned by Havilah Resources, and holds extensive tenements over two prime hot rock geothermal projects in South Australia, namely the Frome project near Broken Hill and the Crower project in the South East. Both projects are well located with respect to existing power grids and end user consumers.

Dr K R Johnson
CHAIRMAN

The information in this report has been prepared by Dr Bob Johnson who is a member of the Australasian Institute of Mining and Metallurgy and Dr Chris Giles who is a member of The Australian Institute of Geoscientists. Drs Johnson and Giles are employed by the Company on consulting contracts. They have sufficient experience which is relevant to the style of geothermal play under consideration to qualify as a Competent Person as defined in Edition 1 (2008) of the "Geothermal Reporting Code, 2008". Drs Johnson and Giles consent to the release of the information compiled in this report in the form and context in which it appears

Enquiries should be directed to Dr Bob Johnson, Chairman, on (08) 8338 9292



Location of seismic line



Terrex Seismic's three synchronized Hemi 60 Buggy mounted Vibrators