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To: Leo Fox
Company: Phoenix Geophysics Limited
Fax Number: 001 416 491 7378
From: HM Bibby
Date: Friday 20 September 2002 **Time:** 16:24 **File:**
Subject: Reference

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facsimile

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Dear Leo,

Attached is a letter that I hope will serve your purpose.
If you would like us to add anything further let me know – we are a day ahead of you so I will be in the office on your Sunday.

Good luck

Hugh

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Hydrocarbons Section

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20 September 2002

Geological and Nuclear Sciences (GNS) is a state owned company that carries out Crown funded geo-science research and associated commercial projects.

In early 2002, GNS purchased three Phoenix System 2000 magnetotelluric units. For our organisation this purchase was a considerable investment, and well beyond our normal capital expenditure. For this reason we put considerable effort into researching and evaluating all available magnetotelluric measurement systems before making this selection. Key factors in the choice included proven reliability of the equipment, the back up provided by the supplier and an ability to work in the New Zealand environment. For the latter, we need to be able to cope with the interference effects of electric fences which are ubiquitous in rural New Zealand. Our evaluation clearly favoured the Phoenix system.

The research projects in which we will be employing the Phoenix magnetotelluric system include:

- The study of geothermal systems and resource assessment.
- The investigation of magmatic systems in New Zealand volcanic regions.
- Studies of oil bearing overthrust formations, complementing standard seismic work.
- Deep fluid controls in the active faulting within New Zealand
- Fundamental crustal structure in tectonic applications.

We are very pleased with our purchase. In its applications to date it has proved equal to our expectations, and the willingness of Phoenix to provide advice and back up has been excellent.

Hugh Bibby
Senior scientist,
Geological and Nuclear Sciences.
New Zealand.