



# WEST JAPAN ENGINEERING CONSULTANTS, INC.

## GEOTHERMAL DEPARTMENT

Denki Bldg., Annex 5F, 2-1-82, Watanabe-dori, Chuo-ku, Fukuoka, JAPAN, 810  
Phone: 81-92-781-2835, Fax: 81-92-751-5044

June 29, 2006

To whom it may concern:

Since 1984, West Japan Engineering Consultants, Inc (West JEC) has conducted MT, AMT and CSAMT surveys in cooperation with Phoenix Geophysics Limited (Phoenix) in many geothermal fields such as Hachiobaru (Japan), Tearai (Japan), Kuenohira (Japan), Mt. Labo (Philippines), Northern-Negros (Philippines), Amatitlan (Guatemala), Berlin (El-Salvador), Tecuamburro (Guatemala) and Tuzla (Turkey).

Based on the MT and CSAMT data acquired by Phoenix personnel using Phoenix equipment, many drilling targets have been detected and drilling to the targets successfully produced geothermal fluids with high temperature.

The recent West JEC's geophysical works with Phoenix using their equipment are listed as follows;

**1. MT survey in the Tecuamburro geothermal field, Guatemala**

- Survey type : Remote reference Magnetotelluric survey
- Number of stations : 36
- Data (field survey) : October 3<sup>rd</sup> - November 1<sup>st</sup>, 2005
- Equipment : MTU-5 x 5 units
- Phoenix Personnel : Mr. George Elliot, Ms. Christine Thompson, Mr. Gordon Thompson and Ms. Gregoria Torrico
- Impression : The data quality was excellent and some promising zones were delineated after data analysis and interpretation work. Phoenix personnel assigned to the survey were well skilled for data acquisition and editing. They were very polite and kind to West JEC personnel and also to local people. The survey was completed successfully.

**2. CSAMT and AMT surveys in Tuzla geothermal field, Turkey**

- Survey type : Controlled Source Audio Frequency Magnetotelluric survey and Audio Frequency Magnetotelluric survey
- Number of stations : 90 (both for CSAMT and AMT)
- Data (field survey) : May 22<sup>nd</sup> - June 22<sup>nd</sup>, 2006
- Equipment : V8 - multi-purpose electro-magnetic receivers x 3 units, Current source transmitter T3
- Phoenix Personnel : Mr. Yam Avram, Mr. Gordon Thompson, Mr. Alex Golyashov, Ms. Gregoria Torrico and Mr. Tesfakiros Haile
- Impression : Large artificial electro-magnetic noise sources due to big power lines and private houses in the survey area were recognized. Even under this difficult circumstance, obtained data quality is fairly good and enough for data analysis and interpretation. Phoenix personnel assigned were well skilled for data acquisition and editing. They were very polite and kind to West JEC personnel and also to local people. The survey could be conducted smoothly and completed successfully.



Koichi Tagomori, Dr Eng.  
General Manager, Geothermal Department  
West Japan Engineering Consultants, Inc.