

Phoenix MT Equipment in Albanian Gas Field

Two co-operating Greek companies, Landtech and Seismotech (referred to as “LT and ST” below) are using Phoenix MT equipment for a gravity and MT project in the Delvina gas field of southeast Albania. Delvina is one of the largest onshore gas fields in southeast Europe and the only major producing gas field in Albania.

LT and ST specialize in providing geophysical services, primarily to the oil industry. Both companies are world leaders in the application of Passive Seismic Tomography (PST) – a hydrocarbon exploration technique used as an alternative to reflection seismic in difficult terrain conditions, difficult geological settings or areas with environmental restrictions.

LT and ST have completed several successful PST projects worldwide for both the private and public sectors. The results from the current Delvina survey will be integrated and jointly interpreted with the results from an earlier PST project that the two companies completed in the same area.



Above: Geologist Kostas Neofotistos and field technician Chris Skarpelos, both with Seismotech, take MT field measurements at the Delvina gas field.

“Since this was our first attempt to enter the world of MT surveying, selecting Phoenix Geophysics as our equipment and guidance provider was the only logical option,” said Dr. Nick Martakis, a geophysicist and the managing director of Seismotech. “Our venture would have been a lot more complicated if it hadn’t been for the valuable support offered to us by Phoenix.”

Phoenix geophysicist Caroline Finateu conducted MT training at the beginning of the survey, and assisted with the survey for several days in late January. Phoenix continues to provide ongoing support as needed. ■

Right: Dr. Alexandros Savvaidis, a Seismotech consultant, prepares Phoenix equipment before taking field measurements.



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PRESIDENT'S MESSAGE

Following the Canadian Exploration Geophysical Society (KEGS) symposium held during the PDAC in Toronto, the society's 60th anniversary was celebrated.

During the reception, we were all pleased to hear a few words from Dr. Lawrence Morley, a world leader in remote sensing; Dr. Morley died just weeks later on April 22 (fittingly, Earth Day). His illustrious career was described in the May 15 *Globe and Mail*.

Prof. Gordon F. West, Emeritus Professor in Residence at the University of Toronto, celebrated his birthday a little before the actual date, but that was a good reason to consume more of the KEGS cake. Prof. West's contributions to EM geophysics are innumerable; it was a pleasure to celebrate with him and many of his colleagues.

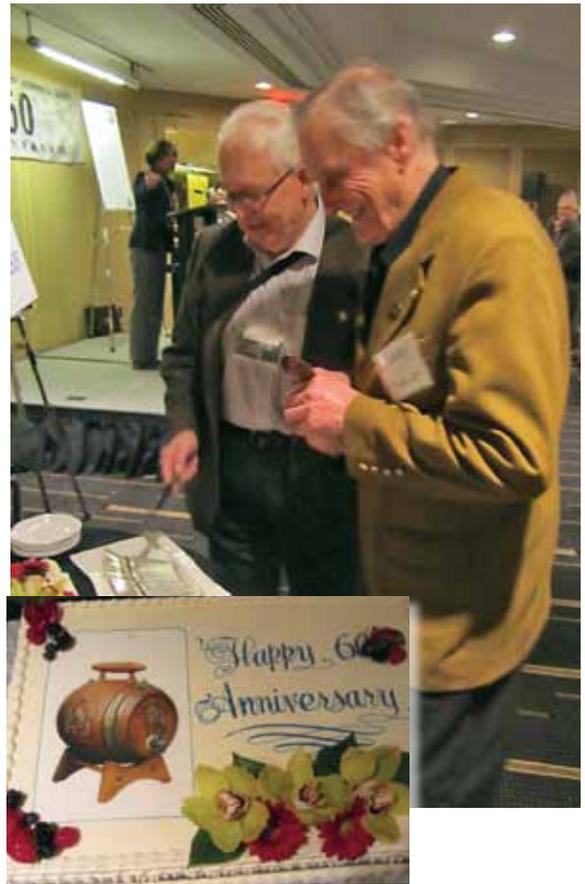
To support and encourage Canadian geophysics students to follow in the footsteps of such outstanding professionals as Morley and West, Phoenix has donated \$2,500 to the KEGS Foundation scholarship fund and pledged an additional \$2,500 in matching funds for other donations.



A few months ago, Phoenix geophysicist Tes Haile met American Peace Corps volunteer Andrew Tadross, on a plane in Ethiopia. This led Phoenix to donate \$5,000 for a water supply to Hugerberda Primary School in Tigray, Ethiopia. The school has more than 400 students, but no running water. The only clean water source for the village is about 500 meters away, and is not accessible during school hours. The Phoenix donation will help to bring water to the school for drinking, washing, and watering vegetable gardens.

"The project will involve trenching a pipe from the existing source to the school and building a water station with six faucets. Most of the expense is the cost of the materials; they are very expensive in this remote part of the country where teachers earn about \$60 per month, but most of the villagers live on less than a dollar a day," wrote Andrew. "Improving water access is the best gift anyone could give. We certainly appreciate the generosity of Phoenix Geophysics."

~ Leo Fox



Professor Gordon West and Dr. Lawrence Morley prepare to cut into the KEGS 60th anniversary cake.



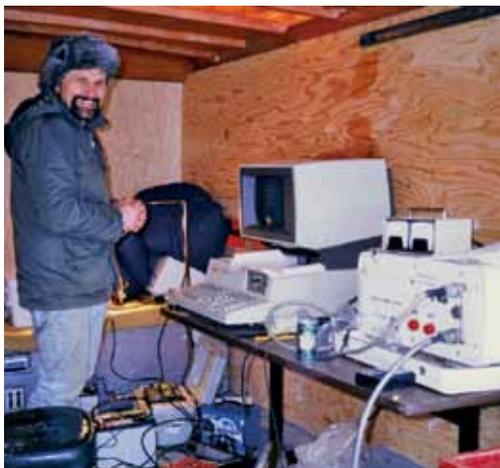
Photo: Andrew Tadross

A student of Hugerberda Primary School carries water on her back; a Phoenix donation will help bring running water to her school.

Looking Back

It's been a quarter century since this photo was taken of Jean-Marie Georgel in 1988. He is shown at work on the Emerald Lake MT survey at Temagami, about 100km northeast of Sudbury, Ontario.

We are counting down to our 20th year of publication in 2014. If you have an interesting (or amusing) old survey photo, please send it to audrey.fox@mac.com for possible inclusion in the next issue.



COMING UP

- **September 22–27:** SEG International Expo & 83rd annual meeting, Houston, Texas

Indonesia

Phoenix geophysicist Caroline Finateu recently conducted a training session in Indonesia for employees of Pertamina Geothermal Energy (PGE).

PGE was established in 2006 specifically to manage business activity in the field of geothermal energy. A subsidiary of PT Pertamina, the state-owned oil and natural gas corporation, PGE is carrying out geothermal exploration and exploitation in several areas of Indonesia.

Right: Phoenix geophysicist Caroline Finateu, centre, is surrounded by many of the geologists and geophysicists who took part in her MT workshop. To the right of Caroline is Imam B. Raharjo, manager of PGE's geophysics department. Antony Lee, Phoenix's agent in Indonesia, is standing third from left.



Phoenix/St Petersburg Co-operation



Photo: Stuart Rogers

A fruitful co-operation between Phoenix Geophysics and the St. Petersburg State Mining Institute (SPMI) began in 2001. Over the years, there have been many visits to and fro and many shared conferences.

For the past several years, the two have co-organized conferences on EM techniques. In 2003, Phoenix donated MT equipment to the Institute for teaching and training. The highly respected institution recently changed its name to the St. Petersburg State University of Mines.

In March, a delegation visited Toronto and staffed a booth at the annual Prospectors & Developers Association Convention. After the PDAC, the delegation visited Queen's

University in Kingston and Laurentian University in Sudbury to discuss inter-university co-operation. As well, two people stayed longer at Phoenix for some refresher training conducted by senior engineer Gerald Graham on Phoenix equipment and software.

Left: Our St. Petersburg visitors gathered outside the Phoenix office. Left to right: Prof. Gennady Korshunov, Head of the Department of Industrial Safety; Elena Zemlyanaya, Head of the Department of International Research Programs; Prof. Viacheslav Maksarov, Head of the Department of Mechanical Engineering; Prof. Irina Talovina, Associate Professor of the Department of Historical and Dynamic Geology; Prof. Dmitrii Pervukhin, Head of the Department of

System Analysis and Management; Prof. Tatiana Alexandrova, Department of Mineral Processing; Prof. Oleg Dubovikov, Associate Professor of the Department of Furnace Technology and Processing of Utilities; Prof. Oleg Kazanin, Head of the delegation and Dean of the Mining Faculty; Olex Ingerov, Phoenix VP for Eastern Europe and FSU; Leo Fox, Phoenix President; Georgy Pospikhov, Associate Professor of the Department of Hydrogeology and Head of the Centre of Engineering Survey; Alexander Golyashov, Phoenix Geophysicist; Evgenii Ermolin, Assistant in the Department of Geophysical and Geochemical Methods of Exploration Activities; Murat Urakov, Phoenix Geophysicist ■

Brazil: Mits Yamashita, Phoenix geophysicist, performed acceptance and participated in multi-function (FDEM, CSAMT and SIP) surveys in March and April for the Federal University of Bahia (UFBA). The surveys were conducted at an oil field in Bahia using five V8 receiver systems and a TXU-30 transmitter.
Below: Mits Yamashita, Prof. Hedison Sato and Prof. Olivar Lima of UFBA



Namibia: In April, Leo Fox and Tes Haile attended the Ninth Western Africa Oil, Gas and Energy show in the capital, Windhoek. They also visited geophysicist Klaus Knupp in Swakopmund, 280km west of Windhoek.
Above: Klaus, Leo and Tes

China: Mitsuru Yamashita visited Beijing April 14–18 as one of a dozen renowned geophysical experts from around the world who presented at a seminar sponsored by China’s Ministry of Land and Resources. Chinalco Rio Tinto Exploration Co. Ltd. advised and assisted with the conference attended by 200 geoscientists from all over China. Mits gave two presentations: *CSAMT: Applications, Advantages and Limitations* and *Managing Noise and Cultural Influences in MT Measurements*.



Russia: In May, Olex Ingerov and Gerald Graham again took part in the annual Moscow State University/Phoenix/Nordwest field school at Alexandrovka.
Above: Field school students use a computer to program data acquisition parameters.



Indonesia: Yann Avram, with our Indonesian agent PGI, took part in the 37th Indonesian Petroleum Association convention and exhibition in Jakarta, May 14–16.
Above: PGI employees in the Phoenix booth with Yann Avram; from left to right Irlan Yanuar, Deborah Langkur, Yanyan Hendrayana, Yann Avram and Antony Lee

Morocco: In early May Phoenix geophysicist Yann Avram attended CMGA6 (Colloque Maghrébin de Géophysique Appliquée) in Meknes, a follow-up to the conference held two years ago in Algiers.



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