perfiles ...YOUR GEOPHYSICAL NEWSLETTER

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induced polarization – electrical resistivity – self-potential – magnetics – electromagnetics - seismics – well-logging
MINING – GROUNDWATER- ENGINEERING - ARCHAEOLOGY

CHEERS!

Welcome to our August issue of *Perfiles*. For 40 years we have constantly tried to maintain leadership in geophysical innovation through the use of the latest instrumentation, commercial and proprietary software, as well as the most advanced geophysical techniques. For this reason we want to dedicate this issue to our line of state-of-the-art instrumentation, as well as some of their specifications. We will not consider on this issue units with less frequent use.

José R. Arce

RESISTIVITY & IP

José Arce Geofísicos S.R.L. covers a wide range of geophysical applications with their own instrumentation. We have always preferred purchasing of new units directly from the factories that develop them, because we believe this is the only way to guarantee their reliability during their lifespan allowing us to give them proper care as well. At the present time, we have five IP/Resistivity transmitters:

- **Scintrex IPC-7**. Power output: 2500W, with 1500V and 4 Amps maximum. This unit uses a Briggs & Stratton 8Hp motor with a 400Hz generator. We have to complete motor-generator sets.
- **Scintrex IPC8 and IPC9**, with 250W & 200W power output, respectively. Both output a maximum of 850V and 1.5 Amperes. They run on rechargeable batteries and are extremely portable. Ideal for vertical electrical soundings and for medium to low penetration (20-100m) 2D & 3D surveys.
- **Iris VIP 3000 (3000W) & Iris VIP 4000 (4000W)**, with 3000V y 5 Amperes of maximum output. Controlled by an internal CPU. They allow the user to select a desired output current and the units regulate the appropriate output voltage to match terrain conditions. They generate a very stable signal with a very safe operation. They use a standard 220V-60Hz generator with a maximum power of 6.5kW. Both units purchased in 2004.

We have the following receivers:

- **Scintrex IPR10** digital IP receiver, with one input channel and 3 Megohms of input impedance.
- Two **Iris ELREC PRO** receivers, with 10 input channels and 100 Megohms of input impedance, which greatly improve readings in unfavorable contact resistance conditions. Out first ELREC PRO unit is serial number 2, while the second is 25. The first instrument arrived to Perú in July 2002 while the second in July 2004. The first unit has already been upgraded with the latest software and firmware improvements.

We have a large stock of repair parts for these instruments, including some of their boards.

Elrec PRO

VIP 4000

IP-RES & EM (TEM, CSAMT, FEM) UNITS

Two complete sets from Zonge Engineering:

- **GGT3** (3kW) and **GGT10** (10kW) transmitters, 1000V maximum output.
- Two **GDP-32** receivers, 8 input channels, 16 Megohms input impedance.
- Two **XMT32** frequency controllers & two **VR-1** voltage regulators.

SEISMIC REFRACTION

- **Geometrics Strataview** R24 seismograph, 24 input channels & 24 bits of signal resolution.
- **Nimbus ES1200**, 12 channel seismograph.
- Two down-hole tools, different geophone cables for various applications.

Strataview R24

WELL-LOGGING

- **Mount Sopris MGXII**, with 500m winch, probe with nine simultaneous readings: SP, Resistance, normal Resistivities (8"-16"-32"-64"),Gamma,fluid Temperature & Resistivity.

MAGNETOMETRY

- 2 **Scintrex ENVI** magnetometers, one with base station setup
- 1 digital **Scintrex MP2** magnetometer.

TECHNICAL SUPPORT

Our sister company, **Arce Electrónicos S.R.L.** provides all the technical support our operation requires for a virtually uninterrupted operation, from design & modifications to repair of commercial instrumentation. All electronic work may be done in our offices in Lima or on-site. We give support to geophysical contractors and mining companies that operate any kind of electronic instrumentation.

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