

CHEERS!

In our August 2004 edition of *Perfiles*, we presented all our current geophysical instrumentation. Since then we have drastically increased and improved our geophysical services and methods.

We want to dedicate this new edition of *Perfiles* to these changes, which have occurred in the last three years, which allow us to offer a great variety of geophysical methods and improved processing and modeling of our results.

José R. Arce

GPS WITH DIFFERENTIAL CORRECTION WITH THE OMNISTAR SYSTEM

- TDS Ranger 300X data collector.
- GPS Receiver antenna Trimble AGGPS114, with Omnistar differential correction for sub-metric precision.



TDS Ranger 300X



Trimble AGGPS 114

LAST GENERATION SEISMOGRAPHS

Two complete instruments:

- Geometrics StrataView R24, 24-channel and 24 bits of trace resolution.
- Geometrics StrataVisor NZXP, 24-channel and 24 bits of trace resolution.



Geometrics StrataVisor NZXP



Geometrics StrataView R24

GRAVITY

- Scintrex CG-5 automatic digital gravimeter, with 1µGal resolution. Automatic corrections: inclination, temperature, drift, earth-tide and seismic filters.



Scintrex CG-5 digital gravimeter

MAGNETOMETRY

- Three digital Scintrex ENVI magnetometers, proton precession sensor, with 1nT resolution. One with base station and one with optional gradiometer setup.
- One Scintrex Navmag SM-5 digital magnetometer, cesium vapor sensor, 0.01nT resolution with continuous readings. Uses internal GPS or external Trimble AGGPS 114 receiver.



Scintrex ENVI



Scintrex Navmag SM-5

RESISTIVITY AND INDUCED POLARIZATION

- Three low power transmitters for shallow resistivity surveys: IPC-7 (2.5kW), IPC-8 (250W), IPC-9 (200W). Two high power transmitters Iris VIP 3000 (3kW) and VIP 4000 (4kW).
- Two 10 channel Iris Elrec Pro receivers.



Iris Elrec PRO



Iris VIP 3000/4000

WELL-LOGGING

Mount Sopris geophysical logger:

- MATRIX and MGX-II controllers.
- Winch with 500 meters of logging cable.
- Polyelectric-gamma probe, for measuring: SP, resistance, normal resistivities (8"-16"-32"-64"), natural gamma radiation, fluid resistivity and temperature.
- Caliper for diameters up to 29".
- New probe: electromagnetic resistivity and magnetic susceptibility.
- Optical televiwer probe, for continuous 3D imaging, with triaxial measurement of deviation. Provides a continuous 3D image of the borehole walls, allows analysis of fracturing, all with sub-millimetric resolution.
- Acoustic televiwer probe, for continuous acoustic image, with triaxial deviation measurements. Similar purpose as optical televiwer but applicable in Wells with non-clear drilling fluids.

The optical and acoustic televiwer probes will be operated in conjunction with Golder Associates Perú.



Mount Sopris geophysical logger with Matrix console and 500m winch.

IP/RES & EM EQUIPMENT (TEM,CSAMT,AMT,FEM)

Two complete Zonge Engineering instrument sets:

- GGT3 (3kW) & GGT10 (10kW) transmitters, two GDP-32 receivers, XMT-32 controllers and VR-1 regulators.

Until next time.....

