

GRAVILOG™

SLIM-HOLE GRAVITY SYSTEM



**SCINTREX**
A DIVISION OF LRS
Setting the Standards

THE CHANGE IN GRAVITY between two locations in a borehole is directly proportional to the density of the formation between the measurement points. Unlike other borehole methods, borehole gravity will provide accurate densities through borehole casings, while being undistorted by wash-outs down the hole, without the requirement for a radioactive source. A borehole gravity probe will provide the precision needed for detailed density determinations of narrow formation and the high production rates required for efficient operations. The GraviLog™ slim-hole probe is designed to be deployed down to a depth of 2,400 meters (7,874 feet; 4 conductors) inside smaller boreholes, (NQ drill rods, 57.2mm [2¼ in]) with deviations from vertical of up to 60 degrees.

APPLICATIONS

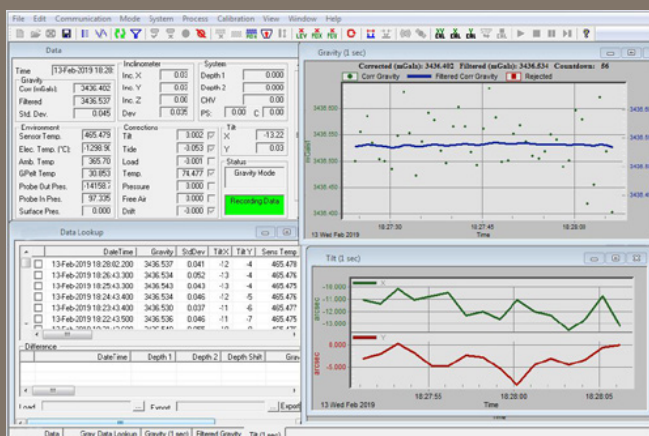
- Bulk density determination
- Determination of massive sulphide deposits or other types of metallic or non-metallic deposits
- Determination of mass associated with conductors
- Detection of cavities and voids
- Improved and quantitative grade control
- Monitoring of dams and tailings ponds integrity
- Monitoring of reservoir fluid movements
- Monitoring of CO₂ sequestration
- Monitoring aquifer storage and recovery operations
- Geothermal monitoring and exploration

GRAVILOG™ OPERATING SYSTEM

Laptop computer with
Gravilog™ Remote Gravity
Software installed.

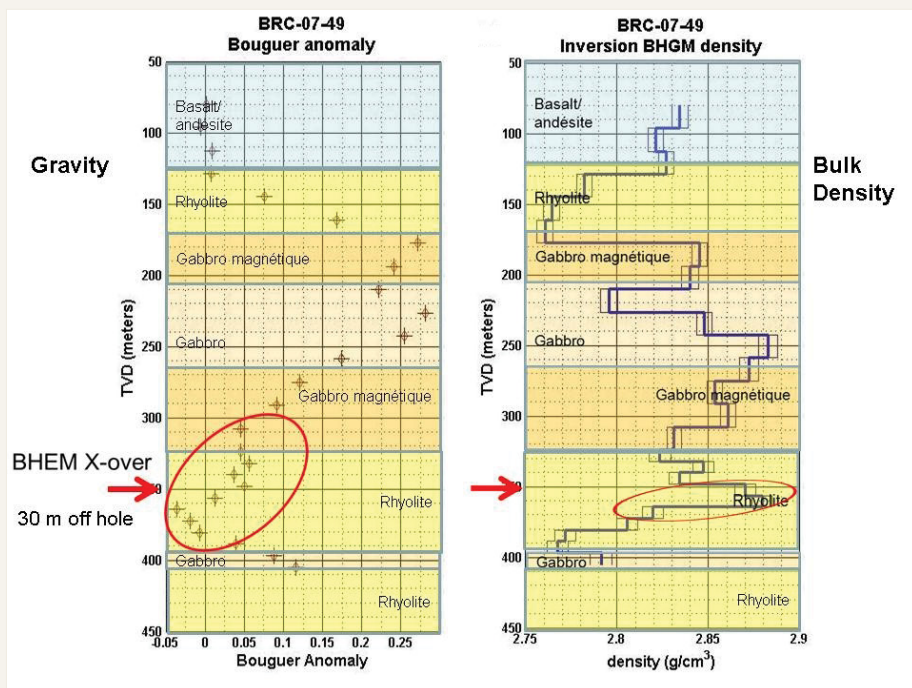


Software is easy to
use and control the
Gravilog™ probe.
Operating screen
shown here.



GRAVILOG™ RESULTS

Gravilog™ probe provides the most accurate data possible with this revolutionary technology.

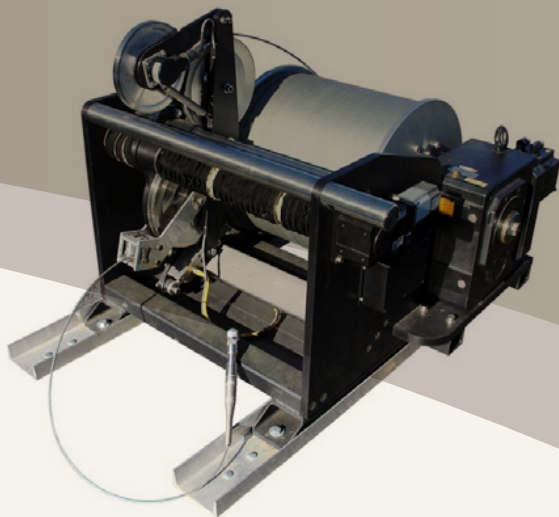


Gravilog™ Gravity results from BRACEMAC-McLEOD, near Matagami, Quebec
Courtesy of: Donner Metals Ltd. and Xstrata Zinc

THE GRAVILOG™ PROBE



Optional
winch available

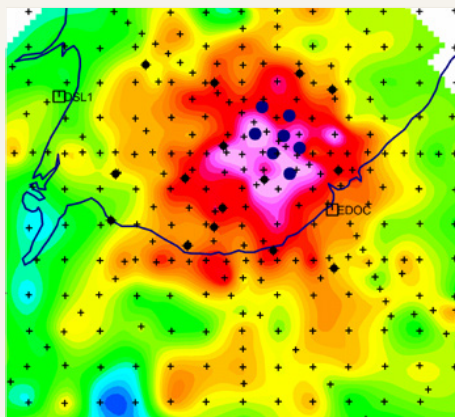


OTHER USES

Microgravity has been used effectively for diverse applications.

In addition to classic geodetic and exploration applications, the microgravity method has been successfully used for time-lapse (4D) monitoring of subsurface

changes related to reservoir production, gas sequestration, enhanced hydrocarbon recovery and aquifer storage and recovery.



Scintrex integrates several other auxiliary systems with the Gravilog™ system for a complete borehole logging tool. The Gravilog™ probe includes a pressure and temperature sensor, a NaI natural gamma module and a sidewall clamp. The system comes with a rugged laptop pre-loaded with our Remote Gravity Software (RGS) for operating the Gravilog™ probe, a control electronics rack with power supply for the probe along with digital back-up power UPS. Logging gravity measurements down a borehole is now almost as easy as taking surface gravity measurements.

Contact us for more information by phone: +1-905-669-2280
or by email: scintrex@scintrexltd.com

SPECIFICATIONS

SENSITIVITY	< 5 microGal
OPERATING RANGE	8,000 mGal
SONDE DIAMETER	50 mm (1.9 in)
SONDE LENGTH/WEIGHT	3.43 m (134.9 in) / 55 kg (85 lb)
MAXIMUM CABLE LENGTH	2,400 m (7,874 ft) with 4 conductors 24 AWG
HOLE DIAMETER	NQ drill rods (57.2 mm, 2¼ in)
DEVIATION OFF VERTICAL	< 60 degrees
OPERATING TEMPERATURE	0°C to +75°C (32°F to 167°F)
OPERATING PRESSURE	Max 3,700 PSI, 25,510 KPA
POSITIONING IN BOREHOLE	+/- 5 cm (2 in) (vertical), relative between stations

All specifications subject to change without notice. Part number: 876711 Revision: 1



222 Snidercroft Road | Concord, L4K 2K1 | Ontario, Canada
 PHONE +1-905-669-2280 FAX +1-905-669-6403
 EMAIL scintrex@scintrexltd.com

WWW.SCINTREXLTD.COM


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