Gap GeoPhysics
Exploration Services

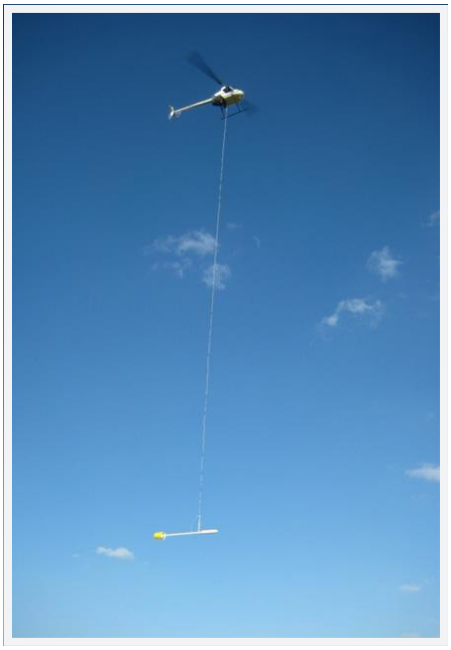
SAM
Geophysical Service

Conduct Sub-Audio Magnetics (SAM) surveys over a large area quickly & efficiently!

SAM is a patented technique that allows for the simultaneous high definition mapping of both the magnetic and electrical properties in the ground - without sacrificing either quality or efficiency.

Features & Benefits

- Simultaneous acquisition of physically independent data sets.
- Continuous sampling enables cost-effective, high spatial resolution surveys.
- Use of a magnetic sensor allows a “point” measurement as opposed to a volume measurement permitting higher definition than conventional resistivity and IP techniques.
- SAM can be used to see through highly conductive surface layers, such as salt lakes, which usually limit other forms of electrical geophysics.
- Less sensitive to local (small) conductivity variations near the point of measurement.
- No need for the receiver to establish electrical contact with the ground.



Applications

- Locating shears associated with shear hosted gold deposits
- “Seeing” through conductive regolith
- Mapping geological structure
- Detecting large conductors (such as massive sulphides) under far greater depth of cover than possible with conventional EM methods.
- Detecting weakly to highly conductive bodies in a conductive host such as disseminated mineralisation and sphalerite rich ores

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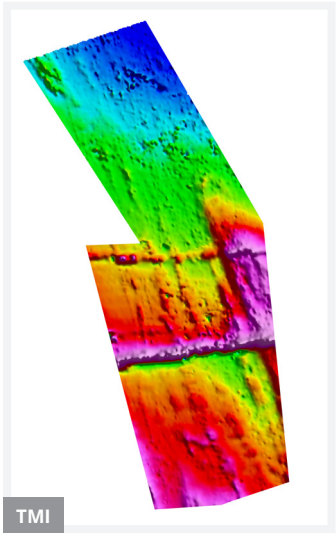
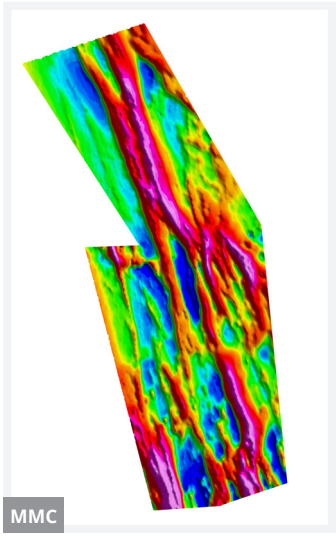

TMI


MMC

ActivEX has released a maiden inferred mineral resource for the Florence Bore north and south deposits within its Cloncurry copper and gold project in Queensland.

ActivEX indicated both deposits had further explorative potential through possible strike extensions and drilling of sub-audio magnetic conductor anomalies similar to those found within the current resource area.

Source: Mining News 30 January 2015

Specifications

SAM Survey Type	*Fixed Loop (Dipole or EM)*
Base Frequency	*Typically 3.125 Hz to 10 Hz*
Sensor / Receiver	*Total Field Cesium Vapour; hand carried, towed sled or helicopterborne (HeliSAM) / TM7 SAM Receiver*
Sensor Noise	*Approximately 0.5 pT per root Hz at 1 Hz*
Sample Rate	*2400 samples per second*
Bandwidth	*DC to 1200 Hz*
Sample Precision	*20 pT*
Tx Synchronisation	*GPS 1PPS pulse*
Navigation	*GPS built into magnetometer system with survey planning software*
Transmitter	*Typically GeoPak HPTX70 or HPTX 80*
Station Spacing	*Typically <2m*
Line Spacing	*Typically 50m*

Gap Geophysics Australia offers a range of proprietary exploration techniques, with advanced instrumentation and high performance transmitters that enable greater depth of exploration and higher resolution surveys.

Exploration Success at Mutiny's Mary Celeste Prospect

Mutiny Gold's Managing Director, Tony James, said: "Mary Celeste was identified by SAM survey in 2013 as a potential exploration target and preliminary drilling has shown that the SAM defined structures have been supported by follow up drilling and initial near surface mineralisation is associated with the structure. This success has significant importance to the Company's ongoing exploration strategy at Gullewa and will play a significant part in our current exploration review of the many targets associated with the Gullewa project."

Source: ASX media release 5 June 2014

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