

**GEO TECH**  
AIRBORNE GEOPHYSICAL SURVEYS

[www.geotech.ca](http://www.geotech.ca)

# **VTEM** *max*

*versatile time-domain electromagnetic system*

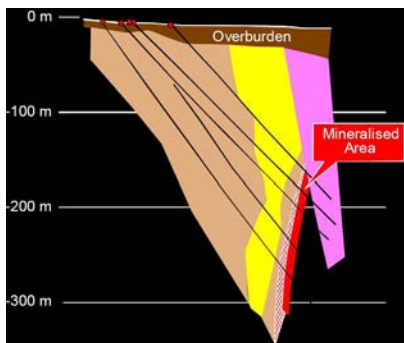


*“VTEM max is the only airborne EM system which has detected the Caber North deposit under 300m + of conductive overburden”*

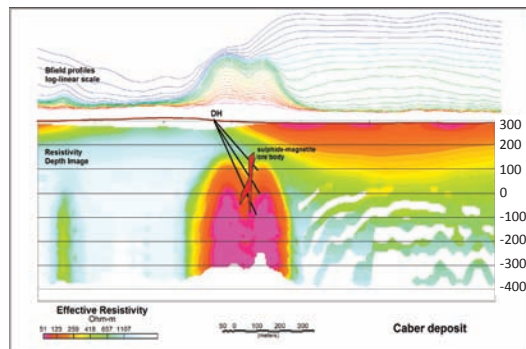
# VTEM<sup>max</sup>

versatile time-domain electromagnetic system

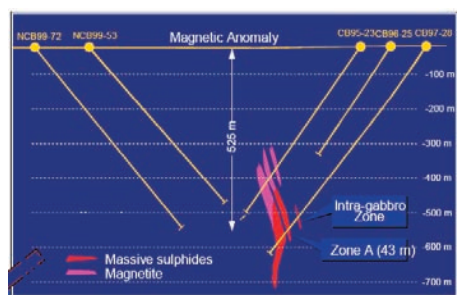
Geotech's VTEM max system is the latest and the most powerful VTEM (versatile time-domain electromagnetic helicopter borne) system developed by Geotech Ltd. With the 35m diameter transmitter loop VTEM max can generate a >1,300,000 NIA peak dipole moment at 25 or 30 Hz. The EM receiver provides both dB/dt and B-field measurements for Z, X and optional Y-axis. The revised data acquisition system (full waveform data) provides wider range of time gate windows (20 microseconds to 10 milliseconds) making Geotech's VTEM max system even more versatile for a wide range of applications. The unique design of the system components together with the high transmitter dipole provide the extremely low EM data noise – below 0.1 nT/s for the late time gates of the dB/dt Z-component.



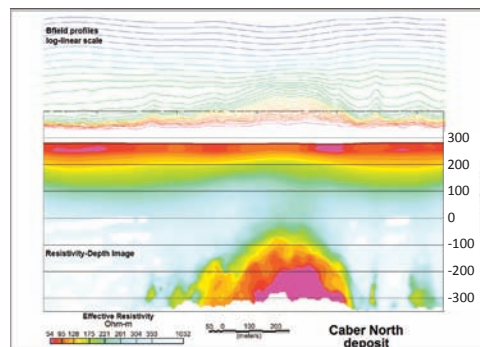
Caber deposit geology



Resistivity-Depth Section with VTEM data & drill holes

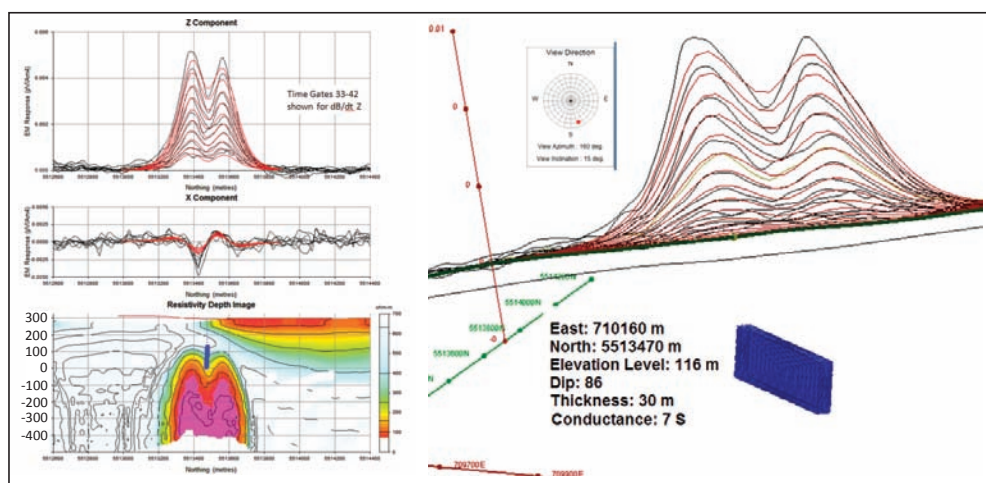


Caber North deposit geology



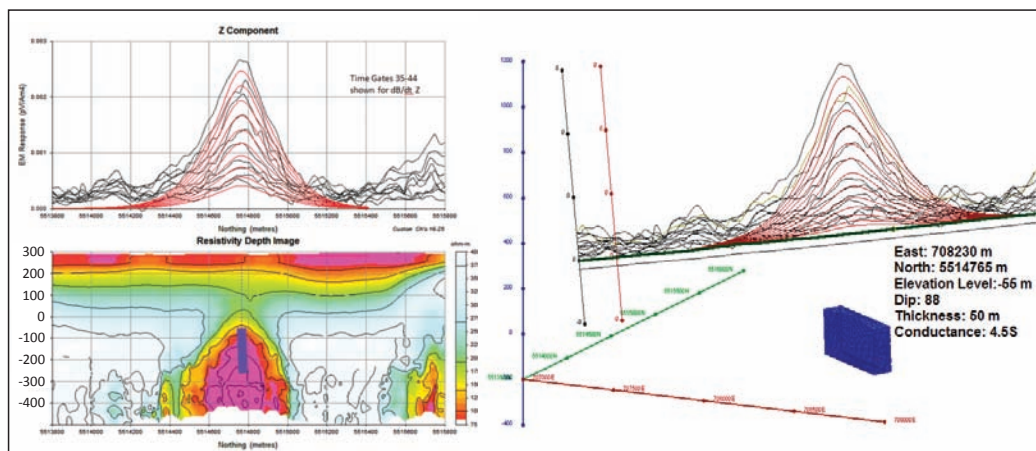
Resistivity-Depth Section with VTEM data

The Caber volcanic massive sulfide deposit is located in Abitibi, Québec, Canada. The copper-zinc deposit, containing 1.3 MT at 1.3% Cu and 5.5% Zn, is located at a depth of 150 m under a conductive overburden cover of approximately 10 m. This historic deposit has been used as a test site for airborne EM systems due to known geology and its small size.



VTEM data with Maxwell modeling results - Caber deposit

The Caber North deposit (1.3 Mt @ 4.0% Zn, 1.7% Cu) is buried at >300 meters depth under conductive overburden. A conventional ground EM survey barely detects the deposit.



VTEM data with Maxwell modeling results - Caber North deposit

