

VTEM Detects Nighthawk from 705m Above!

The Night Hawk Test Range was established by the OGS in the early 1980's as both an airborne and ground site for testing geophysical technologies, particularly electromagnetics. The conductive geological target consists of graphitic schists, within a rhyolitic volcanic host, that occur in a 700 m long, canoe shaped syncline rock two limbs plunging east, open to the east and nosing out to the west. The conductor is overlain by 90 m of sand and gravel (1000 ohm-m).

Geotech's VTEM (versatile time-domain electromagnetic) system is world leader among helicopter TEM systems and has been in constant evolution and improvement. The latest VTEM configuration features a 530 000 NIA dipole moment and the low noise EM receiver providing measurements of both dB/dT and B-field from X,Y and Z-axis receiver coils. The unique combination of high dipole moment of the transmitter, along with the longest Tx pulse width, and the unsurpassed sensitivity of XYZ receiver, with maximal signal-to-noise ratio and widest Rx channel time-gate range, all combine to provide the best results in mineral exploration with highest depth of investigation among modern heliborne TEM systems. This is evidenced by the proven detectability of the Nighthawk target up to 705m flight elevation (shown below).

