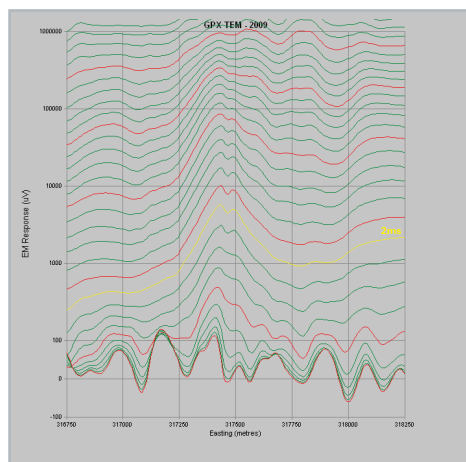


NEPEAN XTEM CASE STUDY

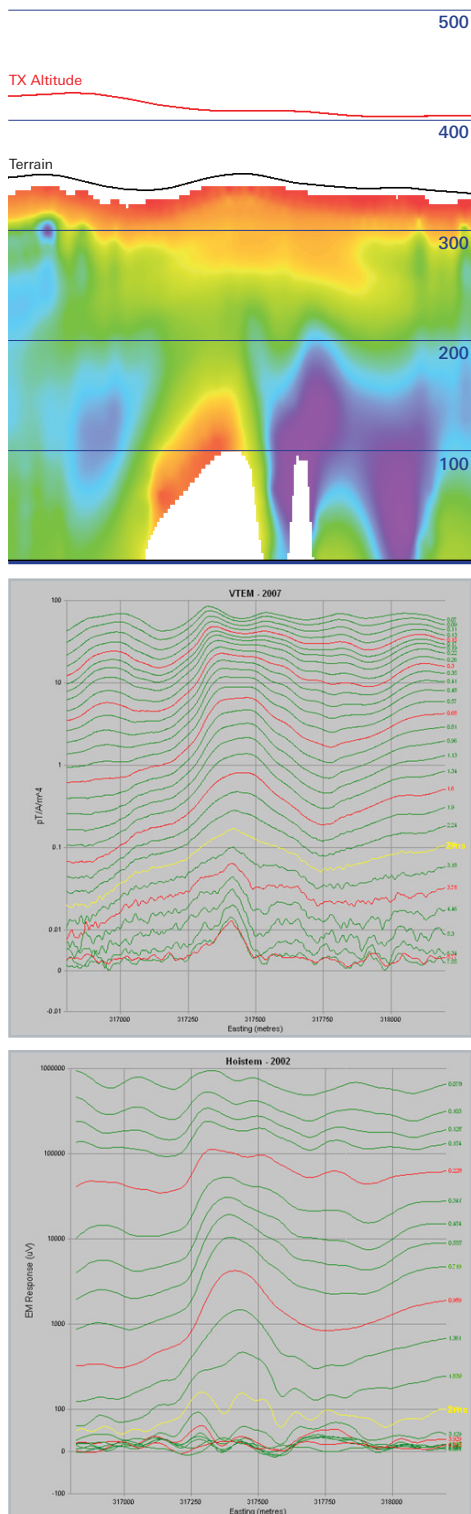
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CDI DETAIL

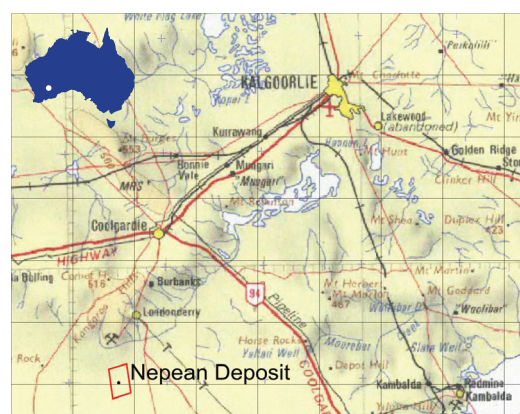
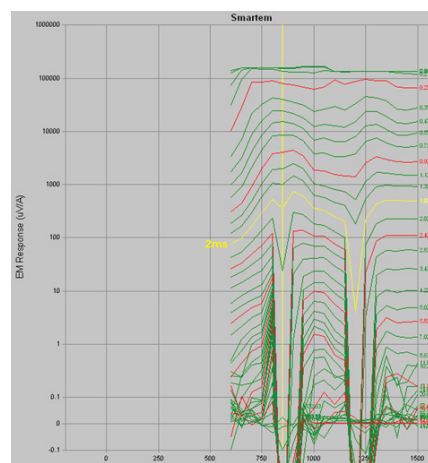


Nepean Nickel Project

The Nepean nickel mine is located approximately 25km south of Coolgardie in Western Australia and was closed in 1987. The ore body is steeply dipping to the west at between 70-80 degrees. The known Nepean mineralisation consists of two bodies on a thrust repeated basalt-serpentine contact that are separated by a few meters. The Nepean deposit has been surveyed by a ground electromagnetic (EM) system (SmarTEM) and three airborne systems (Hoistem, VTEM and XTEM).

XTEM Results

XTEM flew three of the Nepean test lines on 14th August 2009. XTEM survey line 2040 corresponds to the same line flown by VTEM and Hoistem over the deposit located at approximately 317440mE 6550260mN (GDA94 MGA51). The XTEM survey resulted in better spatial and vertical resolution in early and late time compared to Hoistem and VTEM. The deposit was clearly defined in the EM profiles and modelled conductivity depth images (CDI).



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