



ASX ANNOUNCEMENT

10th July, 2008

Drilling commences at Mt Caroline EL 4048 Musgrave Province South Australia

Following the completion of a heritage clearance survey on 22nd April, 2008 by the traditional owners of the area a drilling program has commenced within the Mt Caroline tenement EL 4048. Six boreholes comprising more than 2,400 metres of core drilling designed to provide stratigraphic information from concealed basement rocks and to investigate magnetic, electro-magnetic and gravity features associated with the Caroline Intrusion will be undertaken as part of a collaborative PACE funding program with the South Australian Government.

Airborne EM (Tempest) data covering part of the Caroline Intrusion reveals shallow bedrock conductors possibly representing sulphide mineralisation in the ultrabasic Giles Complex providing nickel copper sulphide targets for the initial six boreholes to be drilled. Four discrete magnetic targets interpreted to represent concealed mafic-ultramafic bodies and one magnetic ring feature interpreted to represent a possible kimberlite target are also proposed to be investigated by drilling following a heritage clearance survey to be undertaken in the south of the tenement during early August.

The western Kintore Block of the tenement was cleared for exploration work on 5th July, 2008 by a survey attended by traditional owners and representatives of APY and PepinNini. A reconnaissance survey consisting of mapping and surface sampling in conjunction with a program of shallow geochemical drill holes is planned for this area.



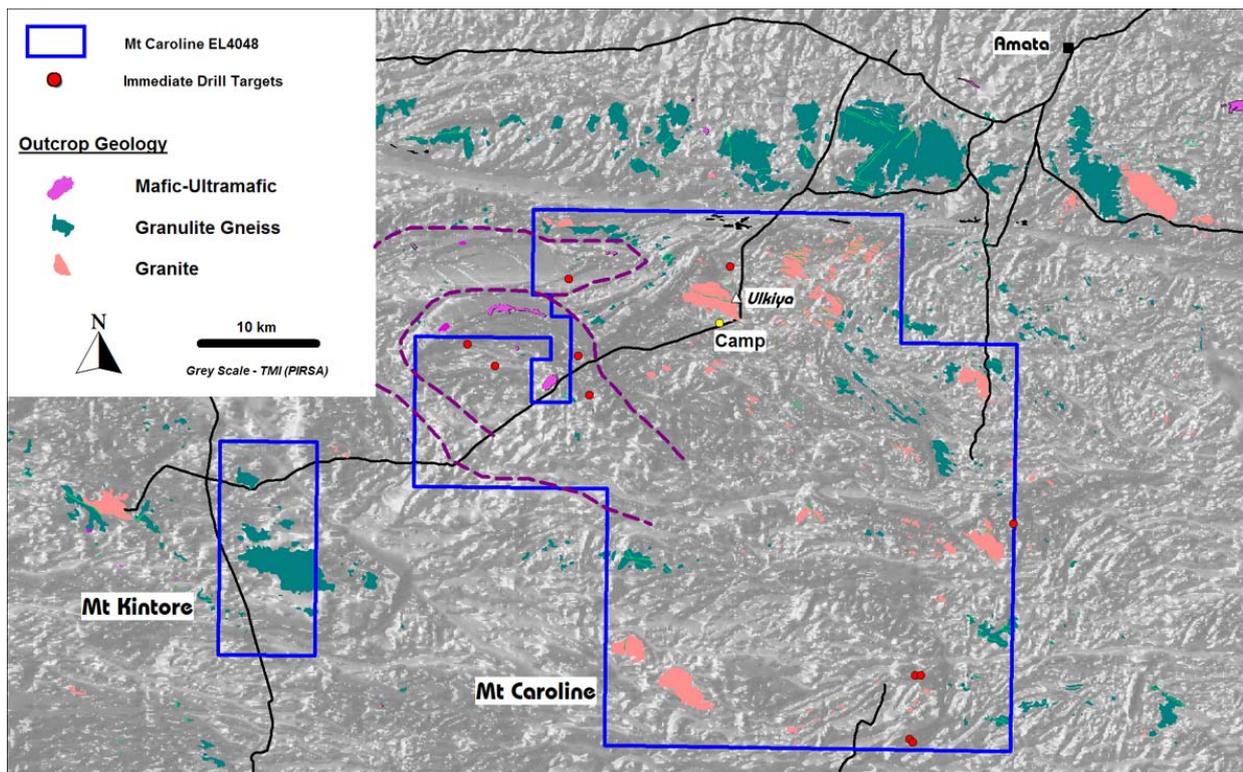
Base Camp – Mt Caroline EL 4048



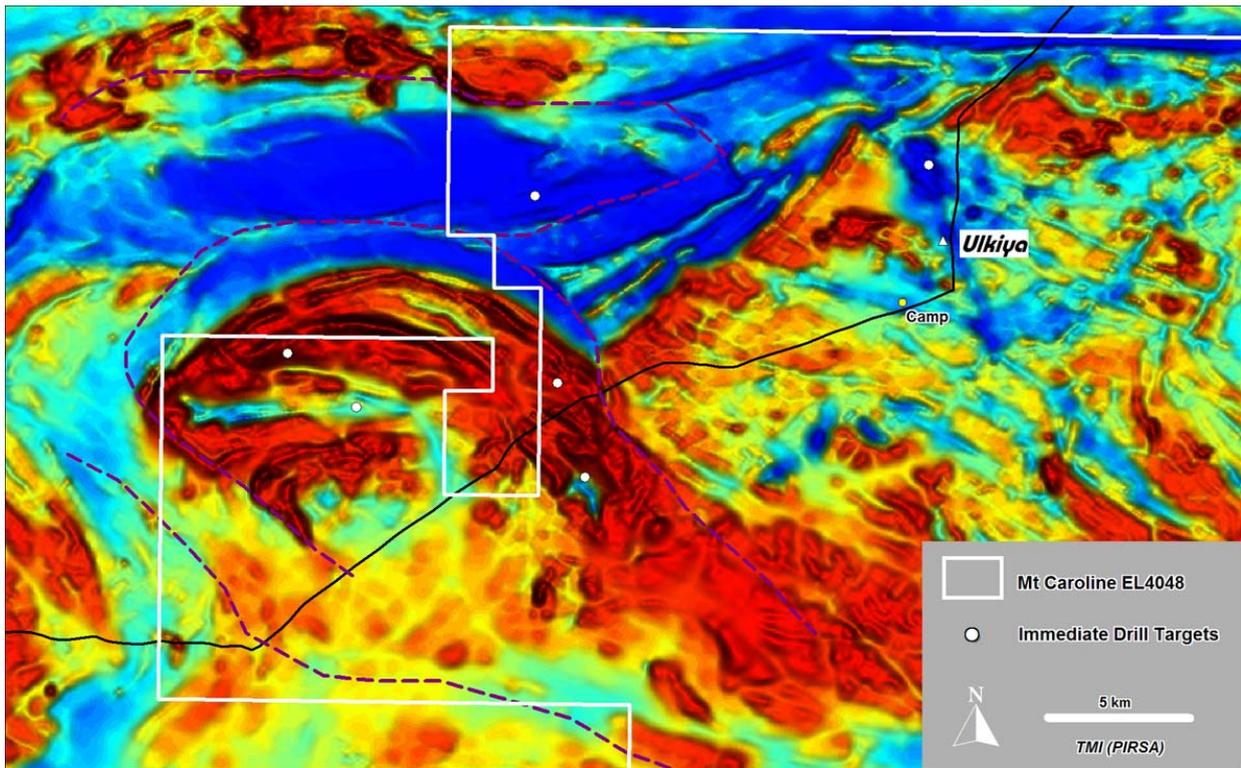
Drilling EL 4048 June, 2008

EL4048 covering approximately 1,916 km² was granted to PepinNini Minerals on 25th February, 2008. The Caroline Intrusion is a large layered mafic/ultramafic intrusion belonging to the Giles Complex with potential for significant nickel copper sulphide mineralisation and platinum group metals similar to the Voisey's Bay and Platreef styles of mineralisation. A regional interpretation of geophysical data currently available for the South Australian portion of the Musgrave Block commissioned by Rio Tinto and PIRSA in 2002 considers the Caroline Intrusive "to have the highest potential for hosting significant NiS mineralisation (nickel sulphide)". This is supported by the identification of pentlandite (Ni sulphide) and chalcopentlandite (Cu-Ni sulphide) in a surface sample collected from an outcrop of the intrusion by PIRSA during a field reconnaissance survey in November, 2004. The intrusion has not been investigated by drilling since 1966 when the South Australian Mines Department drilled six shallow holes each of which intersected anorthosite with minor elevated nickel.

A base camp has been established within the tenement and the Company owned drill rig has commenced operations in the area. The new company owned vacuum rig has also commenced work on an extensive program of shallow geochemical drilling primarily undertaken along existing tracks and fences.



EL 4048 Mt Caroline – Proposed Borehole Locations



EL 4048 Mt Caroline – Magnetic Data (courtesy PIRSA)

The information in this report that relates to Exploration Results is based on information compiled by Norman Kennedy BSc MAusIMM. Norman Kennedy is the Chairman and Managing Director of PepinNini Minerals Limited and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration to qualify as a Competent Person as defined in the 2004 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Norman Kennedy consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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Note: Additional information on PepinNini Minerals Limited can be found on the website:
www.pepinnini.com.au