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ASX:LEG **20 September 2011** **ASX Announcement**

MELOMBO EAST SHAPES AS SUBSTANTIAL TARGET

- **Significant widths of magnetite in two drill holes.**
- **Geological mapping indicates 2.5km^2 footprint.**

Legend Mining Limited (Legend) is pleased to announce interim drilling information from Melombo East at the Ngovayang Project, Cameroon, see Figure 1. Four holes were completed to design depths with a further two abandoned due to mechanical problems with the rig. Two of the completed holes encountered magnetite gneiss intercepts of 120m and 80m respectively and significantly both ended in mineralisation, see Photo 1.

Legend Mining Director Mr Mark Wilson said "The geological mapping reported in this announcement is a magnetite footprint of approximately 2.5km^2. Added to this, the fact that the two intercepts referred to above both ended in mineralisation, give an indication of the depth potential at Melombo East. We are awaiting assay results to confirm the iron grades".

Details of the drilling are discussed in the body of the announcement. The seasonal wet season has caused the suspension of the drill programme until later in the year when a further 10 drillholes are planned at this location with pad preparation already completed. However reconnaissance work over the target areas is ongoing along with geophysical modelling of Melombo East in particular.

Photo 1 : Magnetite Gneiss Drillcore from Drillhole DH046

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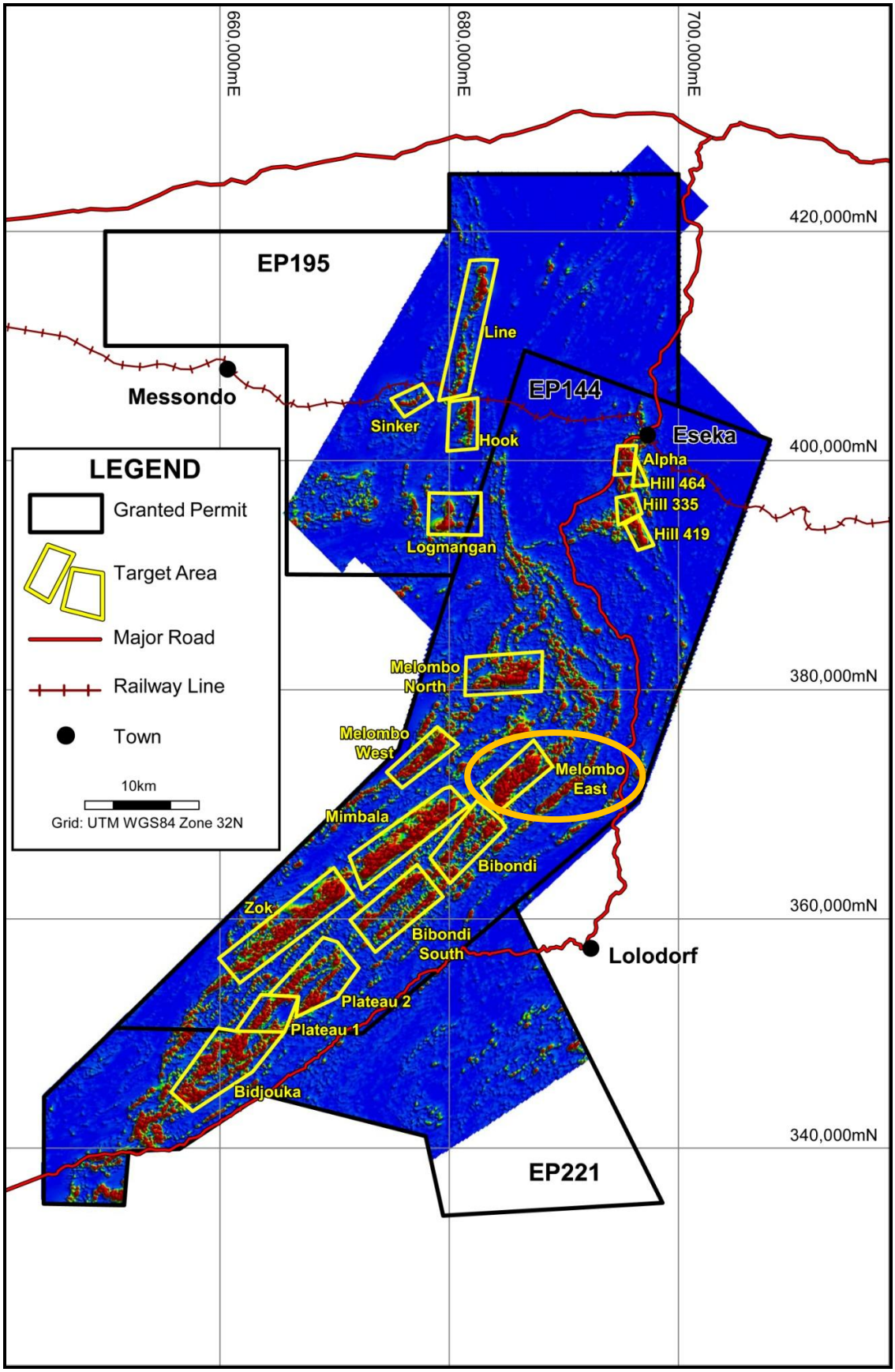

Figure 1: Ngovayang Project – Target Areas over Aeromagnetic Image (Analytical Signal of Total Magnetic Intensity)

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Technical Discussion

Melombo East

Six diamond drillholes (DH042-047), of a 16 hole programme, have been completed at the Melombo East target for a total of 476.88m. The drilling is testing a large (6km x 1.5km) complex aeromagnetic feature, which follows the dominant NE-SW trend of the southern Ngovayang massif.

Details of the drilling are provided below in Table 1, while drillhole locations are shown on Figures 2 & 3 in relation to topography and aeromagnetics.

Table 1: Diamond Drillhole Details – Melombo East

Hole ID	Easting	Northing	Dip/Azimuth	Final Depth
DH042	686065	373167	-60/135	16.52
DH043	686398	372915	-90/000	95.98
DH044	685676	372406	-90/000	149.98
DH045	686073	373162	-90/000	29.98
DH046	685435	371695	-90/000	100.46
DH047	685664	371930	-90/000	83.96
Total				**476.88**

Drilling utilised an Ingetrol man portable diamond drilling rig – HQ and NQ core sizes.
Co-ordinates: Universal Transverse Mercator WGS84, Zone 32, Northern Hemisphere.

Significant thicknesses of magnetite gneiss were intersected in drillholes DH044 (121.38m) and DH046 (80.46m) with both holes terminating in magnetite gneiss. The magnetite in these intersections is coarse grained and relatively uniform throughout, as shown in Photo 1. Both holes have been submitted for laboratory analysis for a full iron ore suite of elements, with results awaited.

Drilling difficulties were encountered in hole DH042 (26.52m) and the subsequently re-drilled hole DH045 (29.98m) resulting in the two holes being abandoned. Magnetite gneiss was intersected in both holes.

Geological mapping has recently been completed over the entire Melombo East target, taking advantage of numerous “exposures” uncovered by bulldozers during rig access track construction. The prospect is dominated by a thick package of banded and interlayered gneiss with variable magnetite-biotite-garnet-amphibole-chlorite content.

Outcrop is somewhat limited, however the mapping has defined two large areas (2km x 1km and 1.5km x 0.8km) of outcropping or subcropping magnetite±biotite±garnet gneiss, as shown on Figures 2 & 3. The gneiss trends in a NE-SW direction with a northwesterly dip ranging between 30-60^0 and correlates well with the aeromagnetic image as expected. The information gained from the mapping and drilling has resulted in a better understanding of the geological character and distribution of magnetite at the prospect.

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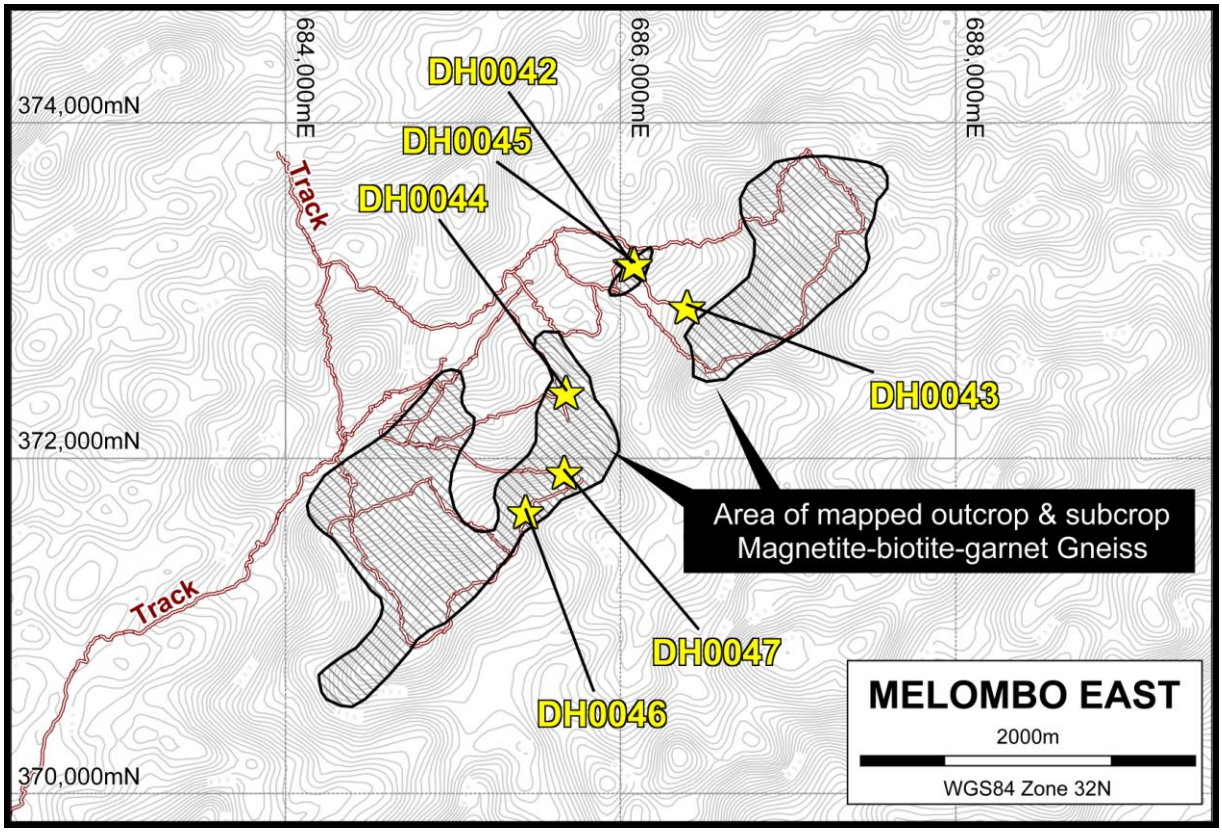

Figure 3: Drillhole Location with Magnetite Gneiss Outcrop/Subcrop over Topography

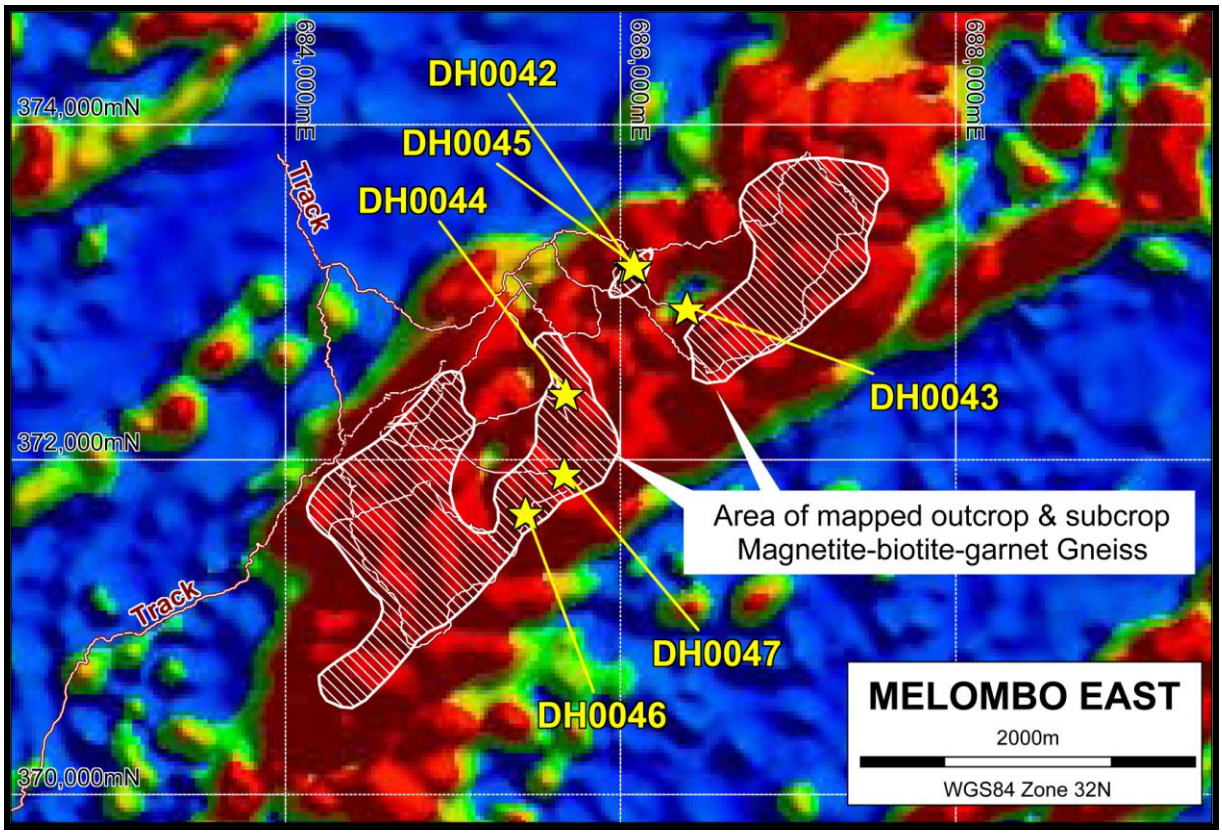

Figure 4: Drillhole Location with Magnetite Gneiss Outcrop/Subcrop over Aeromagnetics

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Geophysical modelling over Melombo East is currently being undertaken aimed at assisting drillhole targeting, as well as providing information on the possible dimensions/extent of the magnetite gneiss.

Melombo East is considered highly prospective for a large tonnage of magnetite, given the thick drill intersections of magnetite gneiss in DH044 and DH046 (open at depth), along with the large strike extent of the magnetite gneiss, as indicated by the geological mapping.

The information in this announcement that relates to Exploration Results has been compiled by Mr Derek Waterfield, a Member of the Australian Institute of Geoscientists and a consultant to Legend Mining Limited. Mr Waterfield has sufficient relevant experience in the styles of mineralisation and types of deposit under consideration, and in the activity he is undertaking, to qualify as a Competent Person as defined in the 2004 Edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (the JORC Code), and consents to the inclusion of the information in the form and context in which it appears.

Visit www.legendmining.com.au for further information and announcements.

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